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April 25, 1991

Mr. A.R. Hanke Site Investigation and Support Branch Waste Management Division Environmental Protection Agency 345 Courtland Street, N. E. Atlanta, Georgia 30365

Subject:

Photo Chemical Systems

Knightdale, Wake County, North Carolina

Environmental Priorities Initiative/Modified Preliminary Assessment

Final Report - Revision 0 EPA ID No. NCD000831065 TDD No. F4-8910-29

Dear Mr. Hanke:

Please find enclosed two copies of the subject report.

All EPA comments have been addressed and incorporated into the report. If you have any questions or comments, please contact me.

Very truly yours,

Approved:

eg Schank

Project Manager

✓Jerald Tittle

JT/kat

Enclosures (2)

FINAL

ENVIRONMENTAL PRIORITIES INITIATIVE PRELIMINARY ASSESSMENT OF PHOTO CHEMICAL SYSTEMS KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA EPA ID #NCD000831065

Prepared Under TDD No. F4-8910-29 CONTRACT No. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

APRIL 24, 1991

NUS CORPORATION SUPERFUND DIVISION

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NOTICE

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EXECUTIVE SUMMARY

Photo Chemical Systems is located on Forest Drive, one block north of U.S. Highway 64, near the town of Knightdale, North Carolina. The 1-acre facility consists of one warehouse with office space. Photo Chemical Systems began operations at this facility during 1985 and continues at the present time. Photo Chemical Systems blends chemicals for the electronic and printing industry.

On November 17, 1980, Photo Chemical Systems field a RCRA Part A Hazardous Waste Permit application as a storage facility. After a formal request to submit a Part B Hazardous Waste Permit application Photo Chemical Systems requested to have its Part A withdrawn due to insurance requirements. Photo Chemical Systems operated as a generator at its former location in Wendell, North Carolina; currently it is operating as a small-quantity generator.

Photo Chemical Systems has operated from locations in Wendell and Knightdale, North Carolina. Confusion has occurred because Photo Chemical Systems was allowed to maintain its original EPA ID number after moving to the latter location.

The majority of the population within 3 miles of the facility is served by private wells. The city of Knightdale serves approximately 350 connections with water obtained from three wells located between 1 and 2 miles southwest of the facility. The city of Knightdale also serves approximately 650 connections with surface water purchased from the city of Raleigh. A house count indicates approximately 1,392 residences within 3 miles of the facility not served by municipal water. The estimated population served by groundwater within 3 miles of the facility is 5,290.

Surface water runoff from the facility enters an unnamed tributary of Beaverdam Creek which then flows into the Neuse River approximately 3 miles to the west. The Neuse River is used for recreational fishing. No critical habitats were identified along the surface water pathway for a distance of 15 miles.

The Visual Site Inspection (VSI) conducted during the investigation identified five Solid Waste Management Units (SWMUs) and two Areas of Concern (AOCs). Two SWMUs and two AOCs are recommended for further action.

1.0 INTRODUCTION

The NUS Corporation Region 4 Field Investigation Team (FIT) conducted a Preliminary Assessment (PA) and a Visual Site Inspection (VSI) at Photo Chemical Systems on March 26, 1990. The task was performed as a part of the Environmental Priorities Initiative (EPI) program as stated in Technical Directive Document (TDD) No. F4-8910-29.

1.1 OBJECTIVE

The major objective of the EPI program is to conduct an onsite and offsite inspection of the assigned facility in order to characterize the Solid Waste Management Units (SWMUs), associated releases, and other Areas of Concern (AOCs). The inspection is conducted in a two-phase operation; the Preliminary Review, which includes the review and evaluation of specific file documents; and the VSI, which identifies all SWMUs, known releases, and AOCs.

1.2 SCOPE OF WORK

The scope of this investigation included the following activities:

- A search of state and EPA files in an attempt to obtain and review specific documents (RCRA, CERCLA, AIR, and NPDES) that will help characterize the facility.
- Development of a detailed facility, base map showing site features, SWMU locations, AOCs, and photo-documentation areas.
- Evaluation of target populations within a 3-mile radius from the site with regard to groundwater and air, and within a 15-mile stream distance for surface water.
- A private well survey within a 3-mile radius of the facility.
- Inspection and photo-documentation of all SWMUs and related releases and exposure pathways.
- Inspection and photo-documentation of all AOCs.

2.0 SITE DESCRIPTION

2.1 SITE LOCATION

Photo Chemical Systems is located in eastern Wake County one block north of U.S. Highway 64, approximately 15 miles east of Raleigh, North Carolina, near the town of Knightdale, North Carolina. The address is 105 Knightdale Drive, Knightdale, North Carolina. The coordinates of the plant building are latitude: 35° 48′ 00″N and longitude: 78° 28′ 42″W (Appendix A, Figure 1) (Ref. 1).

2.2 SITE FEATURES

The facility is located on approximately 1 acre of land. The plant occupies approximately one-eighth of the property and allows unrestricted access because it is unfenced. The facility consists of one building which is divided into an office area and warehouse/chemical mixing area (Figure 2) (Ref. 1).

2.3 OWNERSHIP HISTORY

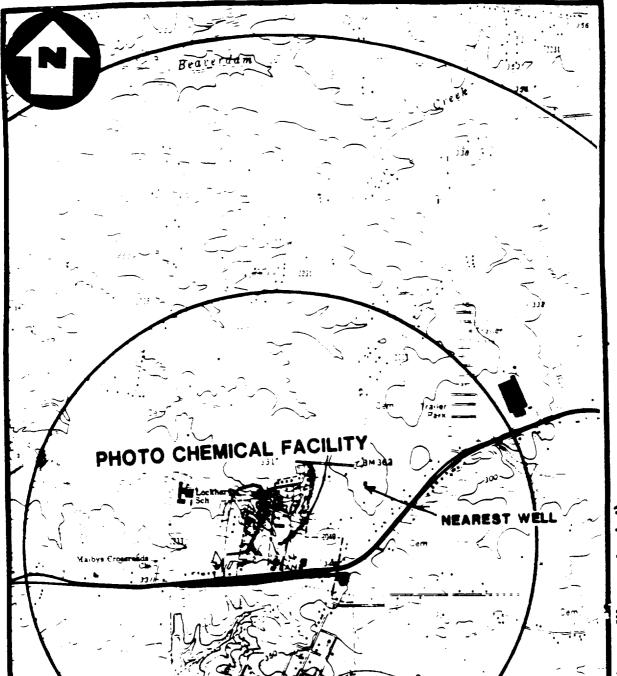
Photo Chemical Systems is owned by Jeff Dykes of 900 Sun Valley Drive, Roswell, Georgia 30076 (Ref. 2).

2.4 NATURE OF OPERATIONS

Photo Chemical Systems in Knightdale, North Carolina, has been operating since 1985. Former operations were conducted in Wendell, North Carolina (Ref. 2). Much of the file material relates to the Wendall location during the period of 1976 to 1985. The facility under investigation is currently operating under the original EPA identification number NCD000831065 assigned to the Wendell facility (Refs. 3, 4).

The majority (95%) of Photo Chemical Systems' operations consist of wholesaling drummed commercial chemicals. The remaining 5 percent of business consists of mixing and blending the chemical products prior to sale. As a service to its' customers, Photo Chemical Systems acts as a staging area for spent liquid chemicals. Fifty, 5-gallon drums of various chemicals are stored for less than 90 days prior to shipping to waste reclaimers (Ref. 5).





SITE LOCATION MAP (from file material)
PHOTO CHEMICAL SYSTEMS
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

SOLID WASTE MANAGEMENT UNITS, AREA OF CONCERN AND PHOTOGRAPH LOCATIONS PHOTO CHEMICAL KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

FIGURE 2



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2.5 PERMIT AND REGULATORY HISTORY

Photo Chemical Systems filed a RCRA Part A Hazardous Waste Permit Application as a storage facility on November 17, 1980 (Ref. 2). This application was filed while Photo Chemical Systems was located at E. Wilson Road in Wendell, North Carolina, approximately 10 miles east of its current location in Knightdale, North Carolina. Photo Chemical Systems then filed for an address change (Ref. 6). On December 5, 1985, the Waste Engineering Section of the EPA granted Photo Chemical Systems retention of its original identification number, even though they had moved several miles to a new location (Ref. 3). A uniform Hazardous Waste Manifest indicates that Photo Chemical Systems is currently using EPA ID Number NCD000831065 (Ref. 4). After a request by the state of North Carolina, Photo Chemical Systems indicated that a Part B application would not be filed (Ref. 7). Photo Chemical Systems requested withdrawal of the Part A (interim status) on August 27, 1987 (Ref. 8). On September 15, 1987, Photo Chemical Systems was granted a requested change in classification to a small-quantity generator (Ref. 9).

During a RCRA generator inspection conducted by the North Carolina Department of Human Resources on May 5, 1989, the Photo Chemical Systems' facility was found to be in compliance with all applicable regulations (Ref. 10). The status of its transportation permit, however, is unknown. Photo Chemical Systems transportation permit expired on October 25, 1987, and has not been reapplied for since March 1989 (Ref. 11). An investigation report submitted by the New Jersey Department of Environmental Protection to the state of North Carolina on February 11, 1986, indicated that Photo Chemical Systems was in violation of state transporter regulations (Ref. 12).

3.0 ENVIRONMENTAL SETTING

The Environmental Setting Section, in addition to the Topographic Map (Appendix A) and Preliminary Assessment Form (Appendix B), provide information to evaluate the potential for a release to groundwater and surface water resources and other receptors.

3.1 WATER SUPPLY

The majority of the population within 3 miles of Photo Chemical Systems is served by private wells (Ref. 13). The city of Knightdale water system provides service to about 1,000 connections using two distribution systems. One system serves within the city limits of Knightdale. Approximately 350 connections are serviced by water from three wells. The other system receives surface water purchased from the city of Raleigh and serves several new subdivisions along Highway 64; this system also sells water to the city of Wendell (Appendix A). A house count using topographic maps identified approximately 1,392 residences using private wells within the 3-mile radius. Between the 3- and 4-mile radii, approximately 986 households are served by private wells. The estimated population using private wells within 3 miles of the facility is, therefore, 5,290 (1,392 private wells x 3.8 people/household) (Appendix A) (Refs. 14, p. 11).

3.2 SURFACE WATER

Surface water runoff from the facility flows approximately 50 feet before entering an unnamed tributary of Beaverdam Creek. This tributary flows for approximately 1.5 miles northwest before entering Beaverdam Creek. Beaverdam Creek enters the Neuse River after 2.0 miles and then flows southeast for the remainder of the 15-mile, migration pathway (Appendix A). There are no permitted surface water intakes located along the surface water migration route (Ref. 15). The Neuse River is fished by recreational fishermen for sunfish, channel catfish, and largemouth bass (Ref. 16).

3.3 CLIMATOLOGICAL, METEOROLOGICAL, AND HYDROGEOLOGICAL FACTORS

The site lies in eastern Wake County and overlies an extensive granitic intrusion of adamellite. The adamellite is characterized as medium-grained, massive, gray, granitic rock, and maps indicate numerous diabase dikes intruding into the adamellite body. Cuttings from boreholes done on the nearby Square D Company site show weathered granitic material beginning between 4 and 10 feet below the surface, overlain by coarse, sandy materials. The soil series on the site is

Wedowee-Durham-Louisburg, which is typically firm, clayey soils on felsic rocks, such as granite or Carolina slates. The upper subsurface beneath the site consists of residual soil grading downward into saprolite and then into the unweathered adamellite. Solid bedrock, the unweathered adamellite, lies about 10 to 60 feet below the surface (Ref. 17, p. 4).

The saturated portion of the regolith and the water within fractures of the crystalline rocks are hydraulically connected and together comprise the regolith/crystalline rock aquifer. The regolith/crystalline rock aquifer is the aquifer of concern in the Raleigh, North Carolina, area. It is an unconfined (water-table) aquifer. Recharge to the aquifer results from the infiltration of rainfall through the unsaturated portion of the regolith to the saturated portion of the regolith and fractures in the crystalline rocks. Water in the fractures rarely exceeds a depth of 300 to 400 feet below land surface (Refs. 18, pp. 1-11; 19, p. 330). The hydraulic conductivity in the overlying soils ranges from 1x10-2 to 1x10-5 cm/sec (Ref. 17, p. 5). Depth to groundwater roughly reflects the topographic relief of the land surface. In the vicinity of Photo Chemical Systems, this depth is approximately 50 feet (Appendix A).

The climate in the Wake County, North Carolina, area is warm, moist, and temperate. The net annual temperature generally ranges from 51° to 70° F (Ref. 20, p. 1). The average annual rainfall is 44 inches, and the net precipitation in the Raleigh area is approximately 3 inches (Ref. 21, pp. 43, 63). The 1-year, 24-hour rainfall is 3.5 inches (Ref. 22, p. 93).

3.4 CRITICAL HABITATS AND ENDANGERED SPECIES

No critical habitats were identified along the surface water pathway for a distance of 15 miles. There are, however, federally endangered, as well as threatened species found in this part of the state (Ref. 23)

4.0 VISUAL SITE INSPECTION (VSI)

The VSI of the Photo Chemical Systems' facility was performed on March 26, 1990 (Ref. 1). The VSI

focused on the past and present waste streams at the facility in order to identify all Solid Waste

Management Units (SWMUs) and Areas of Concern (AOCs) and to collect information beneficial in

assessing potential to release hazardous waste or constituents to the environment.

4.1 SOLID WASTE MANAGEMENT UNITS (SWMUs) AND AREAS OF CONCERN (AOCs)

Five SWMUs were identified at the Photo Chemical Systems' facility during the VSI. Additionally, two

AOCs were identified. SWMUs identified include the drain system and sump, the fume scrubber, the

RCRA-regulated hazardous drum storage area, a recovery drum, and a dumpster. The AOCs

identified include a crack in the floor and a drain to the creek.

During the VSI, personnel representing Photo Chemical Systems accompanied the NUS Field

Investigation team members. The VSI was conducted in a fashion that attempted to follow the same

route in which wastes are handled at the facility (Ref. 1).

All SWMUs and AOCs are delineated on Table 1, are located on Figure 2, and further discussed in this

section. Photographs were taken of all SWMUs and AOCs and are keyed to the photograph locations

on Figure 2. Photographs with documentation follow this section.

The weather conditions at the facility during the VSI were sunny with temperatures around 60° F.

Ground conditions during the VSI were dry (Ref. 1).

4.2 VSI PARTICIPANTS

The following people were present during the VSI:

Jerald Tittle

Preston Averette

NUS Corporation

Plant Manager

Project Manager

Photo Chemical Systems

Environmental Scientist

-8-

Bob Rose

NUS Corporation

Environmental Scientist

Danny Griswell
Warehouse Manager
Photo Chemical Systems

TABLE 1

SOLID WASTE MANAGEMENT UNITS (SWMUs) AND AREAS OF CONCERN (AOCs) IDENTIFICATION SUMMARY PHOTO CHEMICAL SYSTEMS

KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

					Recommendation		
SWMU Number	Name of Unit	Years of Operation	Waste Managed	Evidence of Release	No Further Action	Further Assessment	Sampling
t (SWMU)	Drain System and Sump	5	Ferric chloride	Yes		А	
2 (SWMU)	Fume Scrubber	5	Ferric chloride, sodium hydroxide	None	×		
3 (SWMU)	RCRA Hazardous Drum Storage/Holding Area	5	D008 and D010	None	×		
4 (SWMU)	Recovery Drum	5	Fluroboric acid	None		В	
5 (SWMU)	Dumpster	5	Office waste and nonputresible materials	None	×		
6 (AOC)	Crack in Floor	5	Any materials stored in warehouse; NaOH was stored adjacent to area	None		С	
7 (AOC)	Drain to Creek	3	Mostly drains rainwater	None	X		

A - Seal crack around lip of floor sump and install an overflow warning system

B - Drum should be stored in area designed to contain any further spillage

C - Repair concrete floor, construct berm around storage area

1

SWMU NAME:

Drain System and Sump

SWMU DESCRIPTION: This unit consists of eight floor drains. These drains are located as follows: six in the chemical mixing room and one each in the flammables room and warehouse. Each of these leads to a central, 45-gallon, polyvinyl chloride drum sunk into the concrete floor of the southeast corner of the chemical mixing room. Any liquids entering the drum are pumped upward into a 250-gallon, holding tank. This tank is approximately 2 feet above the floor. Liquids are pH-neutralized and discharged to the municipal sewer system from the holding tank (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit is believed to have

been placed into service in 1985.

DATE OF CLOSURE:

This unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

Ferric chloride was the chemical most often mixed or blended in this area.

RELEASE CONTROLS: The chemical mixing room is curbed by a 6-inch, concrete berm. No overflow

indicators were installed at the time of the VSI.

RELEASE HISTORY:

There is no record or documentation of any environmental impact on or off

site from materials disposed of in this unit. However, cracks in the floor are

visible. Ferric chloride has stained the area around sump (Ref. 1).

INTERIM

RECOMMENDATIONS: Seal cracks in concrete floor where the drum and the concrete meet. Install

overflow alarms on both containers.

PHOTOGRAPH NOS.: 1A, 1B

2

SWMU NAME:

Fume Scrubber

SWMU DESCRIPTION: This unit consists of fume collection hoods, piping, and a fume scrubber. The hoods are located above each of the three blending tanks used by Photo Chemical Systems. These tanks are located along the north wall of the chemical mixing room. Fumes from blending tanks are vented via polyvinyl chloride piping into the scrubber which is in the northwest corner of the chemical mixing room. Fumes are circulated through a water bath to be absorbed. This water is neutralized and discharged into the municipal sewer system. No filters are used on this unit. Manual controls are necessary for operation (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit is believed to have

been placed into service in 1985.

DATE OF CLOSURE:

This unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED: Waste managed includes fumes from process chemicals. Ferric chloride and

sodium hydroxide are most often used in the blending tanks under the hoods.

RELEASE CONTROLS: The only method of control was via a manually operated electrical switch.

RELEASE HISTORY:

There are no records or documentation of any environmental impact on or off

site from materials disposed of in this unit (Ref. 1).

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NO.:

2

3

SWMU NAME:

RCRA Hazardous Drum Storage and Holding Area

SWMU DESCRIPTION: This unit consists of a hazardous waste holding area. A total of forty-four, 55-gallon drums were present during the Visual Site Inspection (VSI). These drums were located in the warehouse. Drums were properly labeled and stacked. Forty-two drums contained spent ammonial etch, labeled D008 (lead), and two were labeled D010 (selenium). Drums were awaiting

shipment to C.P. Chemical of Sumter, South Carolina (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit was placed into

service in 1990.

DATE OF CLOSURE:

The unit was active during the VSI.

WASTES MANAGED: Waste liquids stored in this unit include RCRA-regulated D008 and D010

(Ref. 1).

RELEASE CONTROLS: No release controls were observed near the area of drum storage. The area

was a warehouse with a flat, concrete floor.

RELEASE HISTORY:

According to Photo Chemical Systems' personnel, there have been no releases

from this unit (Ref. 1, p. 10). During the VSI no leaks or releases were observed

(Ref. 1).

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NOS.: 3A, 3B

SWMU NAME:

Recovery Drum

SWMU DESCRIPTION: This unit consists of a steel, 70-gallon, recovery drum containing a clay absorbent material located at the entrance from the loading dock area. This material was placed into service to contain an accidental spillage of

approximately 2 quarts of fluroboric acid.

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit was placed into

service on March 5, 1990.

DATE OF CLOSURE:

This unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

Fluroboric acid was currently being managed.

RELEASE CONTROLS: Absorbent materials are used to contain accidental spillage. The absorbents are then shipped to C.P. Chemical Reclaimers of South Carolina. There were no observed release controls. These drums are placed into service as emergency release controls.

RELEASE HISTORY:

According to Photo Chemical Systems' personnel, an accidental release of approximately 2 quarts of fluroboric acid occurred on March 5, 1990 (Ref. 1).

INTERIM

RECOMMENDATIONS Drums should be stored in an area of proper design to contain any accidential

D.

spillage.

PHOTOGRAPH NO.:

5

SWMU NAME:

Dumpster

SWMU DESCRIPTION: The 10-cubic-yard, metal dumpster has two doors on top that may be opened to receive materials. This unit is located near the loading docks at the north side of the building and is placed on a gravel pad. The unit is removed weekly by BFI and taken to the county landfill (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit is believed to have

been placed into service in 1985.

DATE OF CLOSURE:

The unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

This unit is used to store office waste and other nonputrescible materials.

RELEASE CONTROLS: This unit has lids which would prevent rainwater and animals from entering.

RELEASE HISTORY:

According to Photo Chemical Systems' personnel there have been no on or

offsite releases from this unit. During the VSI there was no evidence of a

release from this unit (Ref. 1).

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NO.:

AOC NUMBER:

6

AOC NAME:

Crack in Floor - Open to Outside

AOC

DESCRIPTION:

This area consists of a hole in the concrete floor approximately 2 x 2 inches, under the west wall of the warehouse, which was apparently caused by settling of the building. This hole is approximately 30 feet from the northwest. corner and 10 feet from a drum of sodium hydroxide which shows signs of

leakage (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this Area of Concern (AOC)

is believed to have been placed into service in approximately 1985.

DATE OF CLOSURE:

This AOC was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

Sodium hydroxide was stored adjacent to area.

RELEASE CONTROLS:

No release controls were observed during the VSI, and substances entering

these cracks may reach the outside environment.

RELEASE HISTORY:

Photo Chemical Systems' personnel have no record of any release from this

area.

INTERIM

RECOMMENDATIONS: The hole in the floor should be repaired and a berm constructed which would

enclose the entire chemical storage area.

PHOTOGRAPH NOS.: 6A, 6B

AOC NUMBER:

7

AOC NAME:

Drain to Creek

AOC

DESCRIPTION:

The Area of Concern (AOC) consists of a 3-inch, PVC pipe that drains the truck-ramp area during storms. The drain flows underground approximately 50 feet where it enters an unnamed tributary of Beaverdam Creek. The truck ramp is constructed of concrete block retaining walls with a concrete deck.

The total volume is approximately $24' \times 20' \times 16''$ (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this AOC is believed to have

been placed into service in January 1987.

DATE OF CLOSURE:

This AOC was active during the Visual Site Inspection.

WASTES MANAGED:

This AOC normally routes rainwater away from the facility; however, any

accidental spillage around the loading dock may enter this pipe.

RELEASE CONTROLS: Normal operations required the manual opening or closing via a cap-like plug.

RELEASE HISTORY:

There was no history of a release. Rainwater or other liquids drain off site via

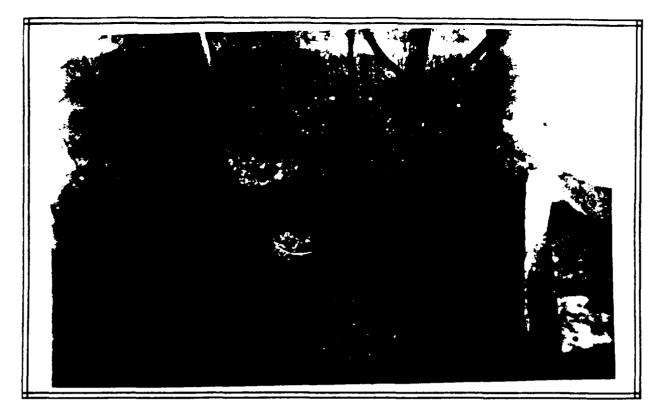
associated pipes.

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NO.:

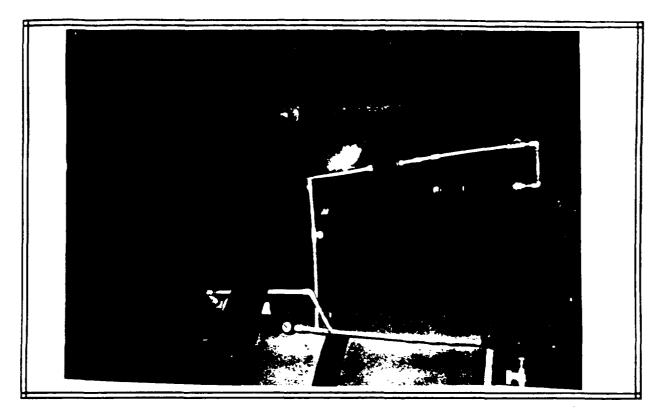
7



SWMU No. 1, Photo 1, Drain System and Sump



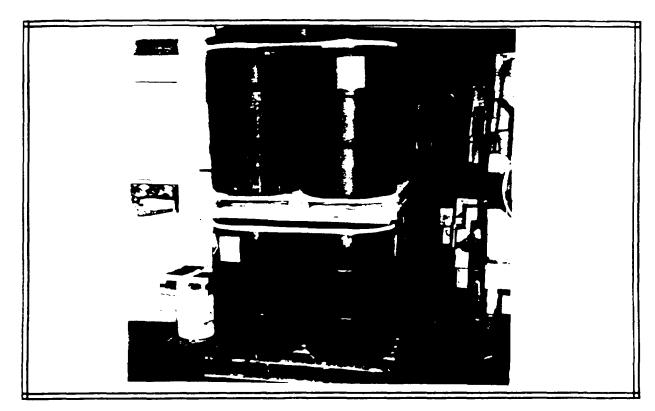
SWMU No. 1, Photo 2, Drain System and Sump



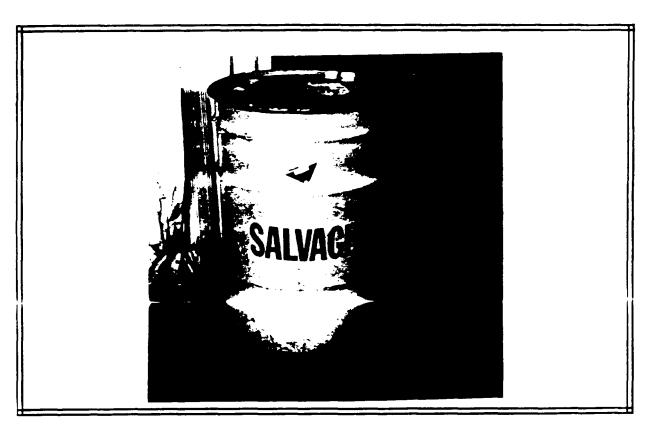
SWMU No. 2, Photo 3, Fume Scrubber



SWMU No. 3, Photo 4, RCRA Hazardous Drum Storage and Holding Area



SWMU No. 3, Photo 5, Hazardous Drum Storage and Handling Area



SWMU No. 4, Photo 6, Recovery Drum



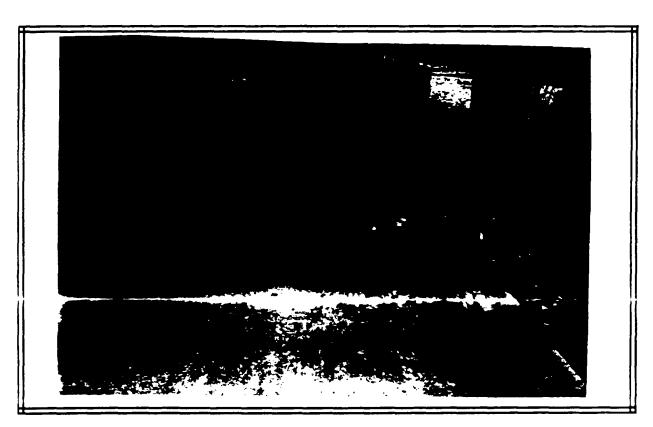
SWMU No. 5, Photo 7, Dumpster



SWMU (AOC) No. 6, Photo 8, Crack in concrete floor



SWMU (AOC) No. 6. Photo 9, Crack in concrete floor



SWMU (AOC) No. 7, Photo 10, Loading Dock Drain

SWMU (AOC) No. 7, Photo 11, Loading Dock drain effluent discharge

REFERENCES

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- 2. EPA Hazardous Waste Permit Application (EPA Forms 3510-01, 3510-3) for Photo Chemical Systems, Wendell, North Carolina. Filed by Jeff Dykes, Owner, November 17, 1980.
- Doug McCurry, Chief, Waste Engineering Section, U.S. Environmental Protection Agency, memorandum to Emil Breckling, North Carolina Department of Human Resources (NCDHR), November 25, 1985. Subject: ID number of Photo Chemical Systems.
- 4. Uniform Hazardous Waste Manifest (EPA Form 8700-22) Document Number CTC0218779 for Photo Chemical Systems (Transporter EPA ID No. NCD08831065), March 20, 1990.
- 5. Preston Averette, Photo Chemical Systems, telephone conversation with Jerald Tittle, NUS Corporation, July 18, 1990. Subject: Operations.
- 6. Kenneth R. Finch, Warehouse Manager, Photo Chemical Systems, Application Form to William L. Meyer, NCDHR, May 14, 1985. Subject: Address change.
- 7. O.W. Strickland, Head, North Carolina Solid and Hazardous Waste Management Branch, letter to Preston Averette, Photo Chemical Systems, March 13, 1984. Subject: Part B.
- 8. Jeff Dykes, Owner, Photo Chemical Systems, letter to Pam Cable, NCDHR, August 27, 1987. Subject: Part A.
- 9. Margaret Babb, NCDHR, letter to Photo Chemical Systems, September 16, 1987. Subject: Change from generator to small generator.
- 10. NCDHR, Inspection and Evaluation Report. Filed by staff ID number 07, May 10, 1989.
- 11. Carroll Burley, South Carolina Department of Health and Environment, letter to Jeff Dykes, Photo Chemical Systems, March 24, 1989. Subject: Transporter ID number.

- 12. Ronald Corcory, Chief, State of New Jersey Department of Environmental Protection, letter to NCDHR, February 11, 1986. Subject: Transporter violations.
- 13. Jack Moyer, Raleigh Water Department, telephone conversation with Julie Keller, NUS Corporation, January 24, 1990. Subject: Raleigh water system.
- 14. NUS Corporation Field Logbook No. F4-1972 for Square D Company, TDD No. F4-8910-26. Documentation of visual site inspection and offsite reconnaissance, January 29, 1990.
- 15. North Carolina Division of Health Services, Environmental Health Section, Water Supply Branch, Public Water Supply Data Sheet for Surface Water, September 14, 1988.
- 16. Wayne Jones, North Carolina Department of Fisheries, telephone conversation with Julie Keller, NUS Corporation, March 26, 1990. Subject: Fishing in Marks Creek and the Neuse River.
- 17. Site Inspection Report, Square D Company. Filed by Grover Nicholson, North Carolina Solid and Hazardous Waste Management Branch, Environmental Health Section, January 1, 1986.
- 18. Harry E. LeGrand, <u>Groundwater of the Piedmont and Blue Ridge Provinces in the Southeastern States</u>, Circular 538 (Washington, D.C., GPO: United States Geological Survey, 1967), pp. 1-11.
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- 21. U.S. Department of Commerce, <u>Climatic Atlas of the United States</u> (Washington, D.C.: GPO, June 1968) Reprint: 1983, National Oceanographic and Atmospheric Administration.
- 22. U.S. Department of Commerce, <u>Rainfall Frequency Atlas of the United States</u>, Technical Paper No. 40 (Washington, D.C.: GPO, 1961, p. 93).
- 23. U.S. Fish and Wildlife Service, <u>Endangered and Threatened Species of the Southeastern United</u>
 States (Atlanta, Georgia, 1988).

APPENDIX A

OVERSIZED DOCUMENT

APPENDIX B

PHOTO CHEMICAL SYSTEMS APPENDIX B F4-8910-29



Site Inspection Report

SEPA

EPA FORM 2070-12 (7 81)

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

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DI STATE	D000831065

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

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GROUND WATER BOUTE SCORE (Egw) = 17.96

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HRS AIR ROUTE SCORE

	CATEGORY/FACTOR		RAW DATA	ASN. VALUE	BOORE
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₽,	WASTE CHARACTER	ISTICS	t n- liktoise kommu samuyitti tii onki kaatiks vanna samuu as aasa ja araaja araajaan y		rengeli Millenber vila Egilyya vila surjekligik (dana. 1
	REACTIVITY:			SIATEST VICTAL SUE	
	INCOMPATIBILITY			MATRIX VALUE	
	TOXICITY				
	WASTE QUANTITY	CUBIC YARDS DRUMS GALLONS TONS			

TOTAL WASTE CHARACTERISTICS SCORE:

TOTAL

N/A

N1 - 25

3. TARGETS

POPULATION WITHIN 4-MILE FADIUS

- 0 to 0.25 mile
- 0 to 0.50 mile
- 0 to 1.0 mile
- O to 4.0 miles

DISTANCE TO SENSITIVE ENVIRONMENTS COASTAL WETLANDS

FRESH-WATER WETLANDS CRITICAL HABITAT

DISTANCE TO LAND USES COMMERCIAL/INDUSTRIAL PARK/FOREST/RESIDENTIAL

AGRICULTURAL LAND

PRIME FARMLAND

HISTORIC SITE WITHIN VIEW?

TOTAL TARRETS SCORE:

AIR ROUTE SCORE (Sa) = 0.00

HAZARD RANKING SYSTEM SCORING CALCULATIONS FOR

SITE: PHOTO CHEMICAL SYSTEMS, N.C. AS OF 12/06/90

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS 7
CONTAINMENT % 1
WASTE CHARACTERISTICS % 34
TARGOIS % 44

= 10876 /57,350 < 100 = 17.94 = 5₉₄

SURFACE WATER ROUTE SCORE

= 2025 /64,350 X 100 = 3.15 = 5...

AIR ROUTE SCORE

DESERVED RELEASE 0 /35,100 X 100 = $0.00 = S_{atr}$

SUMMARY OF MIGRATION SCORE CALCULATIONS

	3	
EROUND WATER ROUTE SCORE (S.,)	17.96	9 22,5 4
SURFACE WATER ROUTE SCORE (S.,)	3.15	9,98
AIR ROUTE SCORE (Sair)	0.00	O "OO
Segu + Sear		338.48
√ (5° gw + 5° sw + 5° atr)		18.25
$S_{m} = 7 (S_{gw}^{2} + S_{gw}^{2} + S_{gw}^{2})/1.73$		10.54

CERCLA ELIGIBILITY QUESTIONNAIRE

Sit	e Name: Photo Chemical Systems		
	y: Knight dale	State: North Carolina	
EP	A ID Number: NCD 00083/065		
١.	CERCLA ELIGIBILITY	Yes	No
٠.	CENCER EDIGINET	<u>163</u>	<u>110</u>
	Did the facility cease operations prior to November 19, 198	30?	Δ
	If answer YES, STOP, facility is probably a CERCLA site.		
	If answer NO, Continue to Part II.		
11.	RCRA ELIGIBILITY	Yes	No
	Did the facility file a RCRA Part A application? If YES:	. <u>X</u>	
	1. Does the facility currently have interim status?		
	2. Did the facility withdraw its Part A application?	$\overline{\mathbf{X}}$	
	Is the facility a known or possible protective filer? (facility filed in error)		
	4. Type of facility: , i		
	Generator SmA\\ Transporter Rec	ycler	
	Does the facility have a RCRA operating or post closure per	mit?	
	Is the facility a late (after 11/19/80) or non-filer that has bee	en	
	identified by the EPA or the State? (facility did not know it		
	needed to file under RCRA)		
	If all answers to questions in Part II are NO, STOP, the facilities a CERCLA eligible site.	у	
X	If answer to #2 or #3 is YES, STOP, the facility is a CERCLA eligible site.		
	If answer #2 and #3 are NO and any OTHER answer is YES, is RCRA, continue to Part III.	sit e	
111.	RCRA SITES ELIGIBLE FOR NPL	<u>Yes</u>	<u>No</u>
	Has the facility owner filed for bankruptcy under federal or state laws?		
	Har the facility last BCDA make minutes	- -	
	Has the facility lost RCRA authorization to operate or shows probable unwillingness to carry out corrective action?		
	Is the facility a TSD that converted to a generator, transport	er .	
	or recycler facility after November 19, 1980?		

approved 2/25/91 NFRAP Gall Bozer

DRAFT

ENVIRONMENTAL PRIORITIES INITIATIVE
PRELIMINARY ASSESSMENT OF
PHOTO CHEMICAL SYSTEMS
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA
EPA ID #NCD000831065

Prepared Under TDD No. F4-8910-29 CONTRACT No. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

NOVEMER 30, 1990

NUS CORPORATION SUPERFUND DIVISION

Prepared By

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Assistant Regional Project Manager Approved By

Phil Brackwell Regional Manager

NOTICE

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EXECUTIVE SUMMARY

Photo Chemical Systems is located on Forest Drive, one block north of U.S. Highway 64, near the town of Knightdale, North Carolina. The 1-acre facility consists of one warehouse with office space. Photo Chemical Systems began operations at this facility during 1985 and continues at the present time Photo Chemical Systems blends chemicals for the electronic and printing industry.

On November 17, 1980, Photo Chemical Systems field a RCRA Part A Hazardous Waste Permit application as a storage facility. After a formal request to submit a Part B Hazardous Waste Permit application Photo Chemical Systems requested to have its Part A withdrawn due to insurance requirements. Photo Chemical Systems operated as a generator at its former location in Wenderl. North Carolina; currently it is operating as a small-quantity generator.

Photo Chemical Systems has operated from locations in Wendell and Knightdale, North Carolina Confusion has occurred because Photo Chemical Systems was allowed to maintain its original EPA ID number after moving to the latter location.

The majority of the population within 3 miles of the facility is served by private wells. The city of Knightdale serves approximately 350 connections with water obtained from three wells located between 1 and 2 miles southwest of the facility. The city of Knightdale also serves approximately 650 connections with surface water purchased from the city of Raleigh. A house count indicates approximately 1,392 residences within 3 miles of the facility not served by municipal water. The estimated population served by groundwater within 3 miles of the facility is 5,290.

Surface water runoff from the facility enters an unnamed tributary of Beaverdam Creek which then flows into the Neuse River approximately 3 miles to the west. The Neuse River is used for recreational fishing. No critical habitats were identified along the surface water pathway for a distance of 15 miles.

The Visual Site Inspection (VSI) conducted during the investigation identified five Solid Waste Management Units (SWMUs) and two Areas of Concern (AOCs). Two SWMUs and two AOCs are recommended for further action.

1.0 INTRODUCTION

The NUS Corporation Region 4 Field Investigation Team (FIT) conducted a Preliminary Assessment (PA) and a Visual Site Inspection (VSI) at Photo Chemical Systems on March 26, 1990. The task was performed as a part of the Environmental Priorities Initiative (EPI) program as stated in Technical Directive Document (TDD) No. F4-8910-29.

1.1 OBJECTIVE

The major objective of the EPI program is to conduct an onsite and offsite inspection of the assigned facility in order to characterize the Solid Waste Management Units (SWMUs), associated releases, and other Areas of Concern (AOCs). The inspection is conducted in a two-phase operation; the Preliminary Review, which includes the review and evaluation of specific file documents; and the VSI, which identifies all SWMUs, known releases, and AOCs.

1.2 SCOPE OF WORK

The scope of this investigation included the following activities:

- A search of state and EPA files in an attempt to obtain and review specific documents (RCRA, CERCLA, AIR, and NPDES) that will help characterize the facility.
- Development of a detailed facility, base map showing site features, SWMU locations, AOCs, and photo-documentation areas.
- Evaluation of target populations within a 3-mile radius from the site with regard to groundwater and air, and within a 15-mile stream distance for surface water.
- A private well survey within a 3-mile radius of the facility.
- Inspection and photo-documentation of all SWMUs and related releases and exposure pathways.
- Inspection and photo-documentation of all AOCs.

2.0 SITE DESCRIPTION

2.1 SITE LOCATION

Photo Chemical Systems is located in eastern Wake County one block north of U.S. Highway 64, approximately 15 miles east of Raleigh, North Carolina, near the town of Knightdale, North Carolina. The address is 105 Knightdale Drive, Knightdale, North Carolina. The coordinates of the plant building are latitude: 35° 48′ 00″N and longitude: 78° 28′ 42″W (Appendix A, Figure 1) (Ref. 1).

2.2 SITE FEATURES

The facility is located on approximately 1 acre of land. The plant occupies approximately one-eighth of the property and allows unrestricted access because it is unfenced. The facility consists of one building which is divided into an office area and warehouse/chemical mixing area (Figure 2) (Ref. 1).

2.3 OWNERSHIP HISTORY

Photo Chemical Systems is owned by Jeff Dykes of 900 Sun Valley Drive, Roswell, Georgia 30076 (Ref. 2).

2.4 NATURE OF OPERATIONS

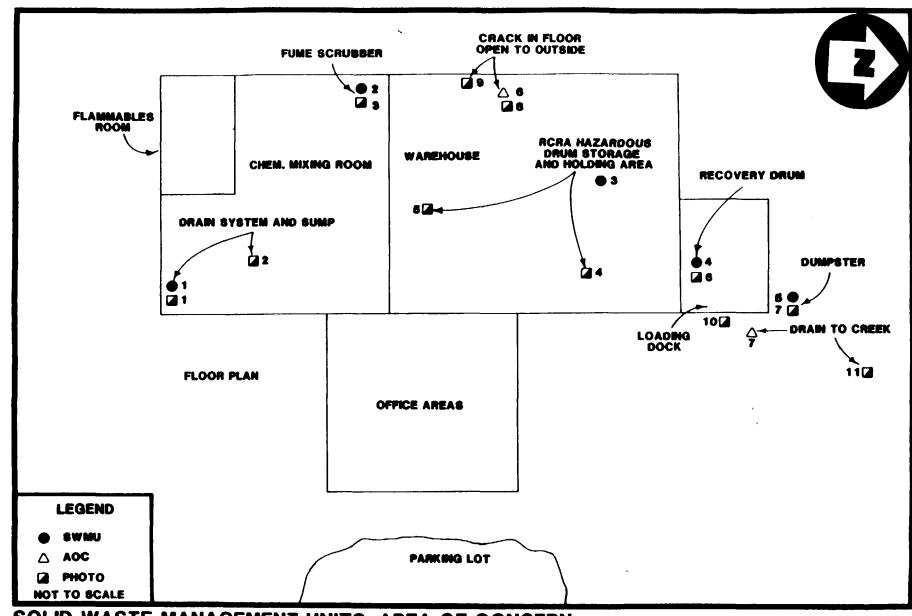
Photo Chemical Systems in Knightdale, North Carolina, has been operating since 1985. Former operations were conducted in Wendell, North Carolina (Ref. 2). Much of the file material relates to the Wendall location during the period of 1976 to 1985. The facility under investigation is currently operating under the original EPA identification number NCD000831065 assigned to the Wendell facility (Refs. 3, 4).

The majority (95%) of Photo Chemical Systems' operations consist of wholesaling drummed commercial chemicals. The remaining 5 percent of business consists of mixing and blending the chemical products prior to sale. As a service to its' customers, Photo Chemical Systems acts as a staging area for spent liquid chemicals. Fifty, 5-gallon drums of various chemicals are stored for less than 90 days prior to shipping to waste reclaimers (Ref. 5).

SITE LOCATION MAP (from file material)
PHOTO CHEMICAL SYSTEMS
KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA



ή.



SOLID WASTE MANAGEMENT UNITS, AREA OF CONCERN AND PHOTOGRAPH LOCATIONS PHOTO CHEMICAL KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA



2.5 PERMIT AND REGULATORY HISTORY

Photo Chemical Systems filed a RCRA Part A Hazardous Waste Permit Application as a storage facility on November 17, 1980 (Ref. 2). This application was filed while Photo Chemical Systems was located at E. Wilson Road in Wendell, North Carolina, approximately 10 miles east of its current location in Knightdale, North Carolina. Photo Chemical Systems then filed for an address change (Ref. 6). On December 5, 1985, the Waste Engineering Section of the EPA granted Photo Chemical Systems retention of its original identification number, even though they had moved several miles to a new location (Ref. 3). A uniform Hazardous Waste Manifest indicates that Photo Chemical Systems is currently using EPA ID Number NCD000831065 (Ref. 4). After a request by the state of North Carolina, Photo Chemical Systems indicated that a Part B application would not be filed (Ref. 7). Photo Chemical Systems requested withdrawal of the Part A (interim status) on August 27, 1987 (Ref. 8). On September 15, 1987, Photo Chemical Systems was granted a requested change in classification to a small-quantity generator (Ref. 9).

During a RCRA generator inspection conducted by the North Carolina Department of Human Resources on May 5, 1989, the Photo Chemical Systems' facility was found to be in compliance with all applicable regulations (Ref. 10). The status of its transportation permit, however, is unknown. Photo Chemical Systems transportation permit expired on October 25, 1987, and has not been reapplied for since March 1989 (Ref. 11). An investigation report submitted by the New Jersey Department of Environmental Protection to the state of North Carolina on February 11, 1986, indicated that Photo Chemical Systems was in violation of state transporter regulations (Ref. 12).

3.0 ENVIRONMENTAL SETTING

The Environmental Setting Section, in addition to the Topographic Map (Appendix A) and Preliminary Assessment Form (Appendix B), provide information to evaluate the potential for a release to groundwater and surface water resources and other receptors.

3.1 WATER SUPPLY

The majority of the population within 3 miles of Photo Chemical Systems is served by private wells (Ref. 13). The city of Knightdale water system provides service to about 1,000 connections using two distribution systems. One system serves within the city limits of Knightdale. Approximately 350 connections are serviced by water from three wells. The other system receives surface water purchased from the city of Raleigh and serves several new subdivisions along Highway 64; this system also sells water to the city of Wendell (Appendix A). A house count using topographic maps identified approximately 1,392 residences using private wells within the 3-mile radius. Between the 3- and 4-mile radii, approximately 986 households are served by private wells. The estimated population using private wells within 3 miles of the facility is, therefore, 5,290 (1,392 private wells x 3.8 people/household) (Appendix A) (Refs. 14, p. 11).

3.2 SURFACE WATER

Surface water runoff from the facility flows approximately 50 feet before entering an unnamed tributary of Beaverdam Creek. This tributary flows for approximately 1.5 miles northwest before entering Beaverdam Creek. Beaverdam Creek enters the Neuse River after 2.0 miles and then flows southeast for the remainder of the 15-mile, migration pathway (Appendix A). There are no permitted surface water intakes located along the surface water migration route (Ref. 15). The Neuse River is fished by recreational fishermen for sunfish, channel catfish, and largemouth bass (Ref. 16).

3.3 CLIMATOLOGICAL, METEOROLOGICAL, AND HYDROGEOLOGICAL FACTORS

The site lies in eastern Wake County and overlies an extensive granitic intrusion of adamellite. The adamellite is characterized as medium-grained, massive, gray, granitic rock, and maps indicate numerous diabase dikes intruding into the adamellite body. Cuttings from boreholes done on the nearby Square D Company site show weathered granitic material beginning between 4 and 10 feet below the surface, overlain by coarse, sandy materials. The soil series on the site is

Wedowee-Durham-Louisburg, which is typically firm, clayey soils on felsic rocks, such as granite or Carolina slates. The upper subsurface beneath the site consists of residual soil grading downward into saprolite and then into the unweathered adamellite. Solid bedrock, the unweathered adamellite, lies about 10 to 60 feet below the surface (Ref. 17, p. 4).

The saturated portion of the regolith and the water within fractures of the crystalline rocks are hydraulically connected and together comprise the regolith/crystalline rock aguifer. The regolith/crystalline rock aquifer is the aquifer of concern in the Raleigh, North Carolina, area. It is an unconfined (water-table) aquifer. Recharge to the aquifer results from the infiltration of rainfall through the unsaturated portion of the regolith to the saturated portion of the regolith and fractures in the crystalline rocks. Water in the fractures rarely exceeds a depth of 300 to 400 feet below land surface (Refs. 18, pp. 1-11; 19, p. 330). The hydraulic conductivity in the overlying soils ranges from 1x10-2 to 1x10-5 cm/sec (Ref. 17, p. 5). Depth to groundwater roughly reflects the topographic relief of the land surface. In the vicinity of Photo Chemical Systems, this depth is approximately 50 feet (Appendix A).

The climate in the Wake County, North Carolina, area is warm, moist, and temperate. The net annual temperature generally ranges from 51° to 70° F (Ref. 20, p. 1). The average annual rainfall is 44 inches, and the net precipitation in the Raleigh area is approximately 3 inches (Ref. 21, pp. 43, 63). The 1-year, 24-hour rainfall is 3.5 inches (Ref. 22, p. 93).

3.4 CRITICAL HABITATS AND ENDANGERED SPECIES

No critical habitats were identified along the surface water pathway for a distance of 15 miles. There are, however, federally endangered, as well as threatened species found in this part of the state (Ref. 23)

DRAFT

4.0 VISUAL SITE INSPECTION (VSI)

The VSI of the Photo Chemical Systems' facility was performed on March 26, 1990 (Ref. 1). The VSI

focused on the past and present waste streams at the facility in order to identify all Solid Waste

Management Units (SWMUs) and Areas of Concern (AOCs) and to collect information beneficial in

assessing potential to release hazardous waste or constituents to the environment.

4.1 SOLID WASTE MANAGEMENT UNITS (SWMUs) AND AREAS OF CONCERN (AOCs)

Five SWMUs were identified at the Photo Chemical Systems' facility during the VSI. Additionally, two

AOCs were identified. SWMUs identified include the drain system and sump, the fume scrubber, the

RCRA-regulated hazardous drum storage area, a recovery drum, and a dumpster. The AOCs

identified include a crack in the floor and a drain to the creek.

During the VSI, personnel representing Photo Chemical Systems accompanied the NUS Field

Investigation team members. The VSI was conducted in a fashion that attempted to follow the same

route in which wastes are handled at the facility (Ref. 1).

All SWMUs and AOCs are delineated on Table 1, are located on Figure 2, and further discussed in this

section. Photographs were taken of all SWMUs and AOCs and are keyed to the photograph locations

on Figure 2. Photographs with documentation follow this section.

The weather conditions at the facility during the VSI were sunny with temperatures around 60° F.

Ground conditions during the VSI were dry (Ref. 1).

4.2 VSI PARTICIPANTS

The following people were present during the VSI:

Jerald Tittle

Preston Averette

NUS Corporation

Plant Manager

Project Manager

Photo Chemical Systems

Environmental Scientist

-8-

Bob Rose

NUS Corporation

Environmental Scientist

Danny Griswell

Warehouse Manager

Photo Chemical Systems

SOLID WASTE MANAGEMENT UNITS (SWMUs) AND AREAS OF CONCERN (AOCs) IDENTIFICATION SUMMARY PHOTO CHEMICAL SYSTEMS

KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

TABLE 1

					Recommendation		on
SWMU Number	N ame of Unit	Years of Operation	Waste Managed	Evidence of Release	No Further Action	Further Assessment	Sampling
1 (SWMU)	Drain System and Sump	5	Ferric chloride	Yes		А	
2 (SWMU)	Fume Scrubber	5	Ferric chloride, sodium hydroxide	None	×		
3 (SWMU)	RCRA Hazardous Drum Storage/Holding Area	5	D008 and D010	None	Х		
4 (SWMU)	Recovery Drum	5	Fluroboric acid	None		В	
5 (SWMU)	Dumpster	5	Office waste and nonputresible materials	None	х		
6 (AOC)	Crack in Floor	5	Any materials stored in warehouse; NaOH was stored adjacent to area	None		С	
7 (AOC)	Drain to Creek	3	Mostly drains rainwater	None	Х		

A - Seal crack around lip of floor sump and install an overflow warning system.

B - Drum should be stored in area designed to contain any further spillage.

C - Repair concrete floor, construct berm around storage area.

SWMU NAME:

Drain System and Sump

SWMU DESCRIPTION: This unit consists of eight floor drains. These drains are located as follows: six in the chemical mixing room and one each in the flammables room and warehouse. Each of these leads to a central, 45-gallon, polyvinyl chloride drum sunk into the concrete floor of the southeast corner of the chemical mixing room. Any liquids entering the drum are pumped upward into a 250gallon, holding tank. This tank is approximately 2 feet above the floor Liquids are pH-neutralized and discharged to the municipal sewer system from the holding tank (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit is believed to have been placed into service in 1985.

DATE OF CLOSURE:

This unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

Ferric chloride was the chemical most often mixed or blended in this area.

RELEASE CONTROLS: The chemical mixing room is curbed by a 6-inch, concrete berm. No overflow indicators were installed at the time of the VSI.

RELEASE HISTORY:

There is no record or documentation of any environmental impact on or off site from materials disposed of in this unit. However, cracks in the floor are visible. Ferric chloride has stained the area around sump (Ref. 1).

INTERIM

RECOMMENDATIONS: Seal cracks in concrete floor where the drum and the concrete meet. Install

overflow alarms on both containers.

PHOTOGRAPH NOS.: 1A, 1B

2

SWMU NAME:

Fume Scrubber

SWMU DESCRIPTION: This unit consists of fume collection hoods, piping, and a fume scrubber. The hoods are located above each of the three blending tanks used by Photo Chemical Systems. These tanks are located along the north wall of the chemical mixing room. Fumes from blending tanks are vented via polyvinyl chloride piping into the scrubber which is in the northwest corner of the chemical mixing room. Fumes are circulated through a water bath to be absorbed. This water is neutralized and discharged into the municipal sewer system. No filters are used on this unit. Manual controls are necessary for operation (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit is believed to have

been placed into service in 1985.

DATE OF CLOSURE:

This unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

Waste managed includes fumes from process chemicals. Ferric chloride and

sodium hydroxide are most often used in the blending tanks under the hoods.

RELEASE CONTROLS: The only method of control was via a manually operated electrical switch.

RELEASE HISTORY:

There are no records or documentation of any environmental impact on or off

site from materials disposed of in this unit (Ref. 1).

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NO.:

2

3

SWMU NAME:

RCRA Hazardous Drum Storage and Holding Area

SWMU DESCRIPTION: This unit consists of a hazardous waste holding area. A total of forty-four, 55-gallon drums were present during the Visual Site Inspection (VSI). These drums were located in the warehouse. Drums were properly labeled and stacked. Forty-two drums contained spent ammonial etch, labeled D008 (lead), and two were labeled D010 (selenium). Drums were awaiting

shipment to C.P. Chemical of Sumter, South Carolina (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit was placed into

service in 1990

DATE OF CLOSURE:

The unit was active during the VSI.

WASTES MANAGED:

Waste liquids stored in this unit include RCRA-regulated D008 and D010

(Ref. 1).

RELEASE CONTROLS: No release controls were observed near the area of drum storage. The area

was a warehouse with a flat, concrete floor.

RELEASE HISTORY:

According to Photo Chemical Systems' personnel, there have been no releases

from this unit (Ref. 1, p. 10). During the VSI no leaks or releases were observed

(Ref. 1).

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NOS.: 3A, 3B

SWMU NAME:

Recovery Drum

SWMU DESCRIPTION: This unit consists of a steel, 70-gallon, recovery drum containing a clay absorbent material located at the entrance from the loading dock area. This material was placed into service to contain an accidental spillage of approximately 2 quarts of fluroboric acid.

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit was placed into service on March 5, 1990.

DATE OF CLOSURE:

This unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED:

Fluroboric acid was currently being managed.

RELEASE CONTROLS: Absorbent materials are used to contain accidental spillage. The absorbents are then shipped to C.P. Chemical Reclaimers of South Carolina. There were no observed release controls. These drums are placed into service as emergency release controls.

RELEASE HISTORY:

According to Photo Chemical Systems' personnel, an accidental release of approximately 2 quarts of fluroboric acid occurred on March 5, 1990 (Ref. 1).

INTERIM

RECOMMENDATIONS Drums should be stored in an area of proper design to contain any accidential spillage.

PHOTOGRAPH NO.:

SWMU NAME:

Dumpster

SWMU DESCRIPTION: The 10-cubic-yard, metal dumpster has two doors on top that may be opened to receive materials. This unit is located near the loading docks at the north side of the building and is placed on a gravel pad. The unit is removed weekly

by BFI and taken to the county landfill (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this unit is believed to have

been placed into service in 1985.

DATE OF CLOSURE:

The unit was active during the Visual Site Inspection (VSI).

WASTES MANAGED: This unit is used to store office waste and other nonputrescible materials.

RELEASE CONTROLS: This unit has lids which would prevent rainwater and animals from entering.

RELEASE HISTORY:

According to Photo Chemical Systems' personnel there have been no on or

offsite releases from this unit. During the VSI there was no evidence of a

release from this unit (Ref. 1).

INTERIM

RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NO.:

AOC NUMBER:

6

AOC NAME:

Crack in Floor - Open to Outside

AOC

DESCRIPTION:

This area consists of a hole in the concrete floor approximately 2 x 2 inches, under the west wall of the warehouse, which was apparently caused by settling of the building. This hole is approximately 30 feet from the northwest corner and 10 feet from a drum of sodium hydroxide which shows signs of leakage (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this Area of Concern (AOC) is believed to have been placed into service in approximately 1985.

DATE OF CLOSURE:

This AOC was active during the Visual Site Inspection (VSI).

WASTES MANAGED: Sodium hydroxide was stored adjacent to area.

RELEASE CONTROLS: No release controls were observed during the VSI, and substances entering these cracks may reach the outside environment.

RELEASE HISTORY:

Photo Chemical Systems' personnel have no record of any release from this

area.

INTERIM

RECOMMENDATIONS: The hole in the floor should be repaired and a berm constructed which would

enclose the entire chemical storage area.

PHOTOGRAPH NOS.: 6A, 6B

AOC NUMBER:

7

AOC NAME:

Drain to Creek

AOC

DESCRIPTION:

The Area of Concern (AOC) consists of a 3-inch, PVC pipe that drains the truck-ramp area during storms. The drain flows underground approximately 50 feet where it enters an unnamed tributary of Beaverdam Creek. The truck ramp is constructed of concrete block retaining walls with a concrete deck.

The total volume is approximately 24' x 20' x 16" (Ref. 1).

DATE OF START-UP:

According to Photo Chemical Systems' personnel, this AOC is believed to have

been placed into service in January 1987.

DATE OF CLOSURE:

This AOC was active during the Visual Site Inspection.

WASTES MANAGED:

This AOC normally routes rainwater away from the facility; however, any

accidental spillage around the loading dock may enter this pipe.

RELEASE CONTROLS:

Normal operations required the manual opening or closing via a cap-like plug.

RELEASE HISTORY:

There was no history of a release. Rainwater or other liquids drain off site via

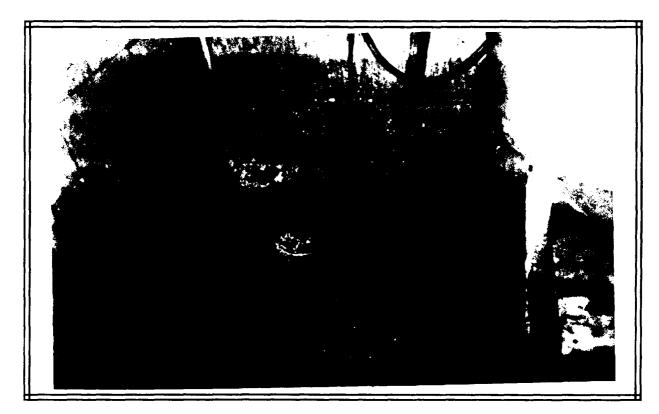
associated pipes.

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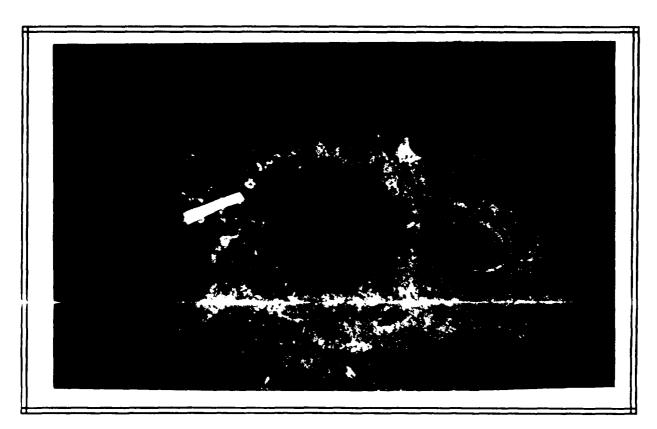
RECOMMENDATIONS: No Further Action.

PHOTOGRAPH NO.:

7



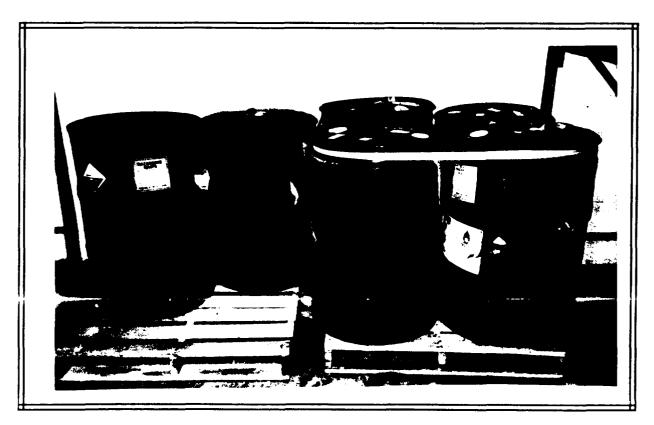
SWMU No. 1, Photo 1, Drain System and Sump



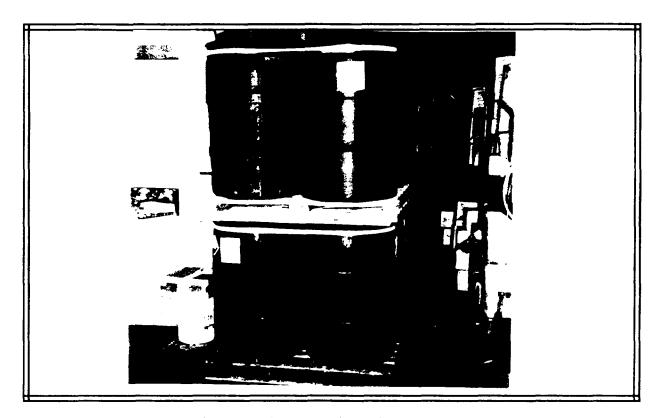
SWMU No. 1, Photo 2, Drain System and Sump



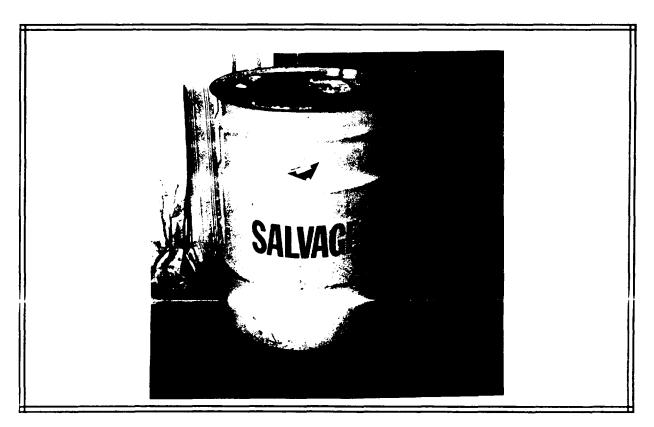
SWMU No. 2, Photo 3, Fume Scrubber



SWMU No. 3, Photo 4, RCRA Hazardous Drum Storage and Holding Area



SWMU No. 3, Proto 5, Hazardous Drum Storage and Handling Area



SWMU No. 4, Photo 6, Recovery Drum



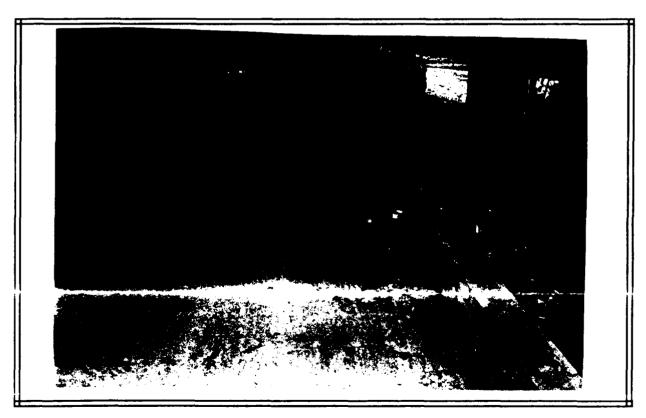
SWMU No. 5, Photo 7, Dumpster



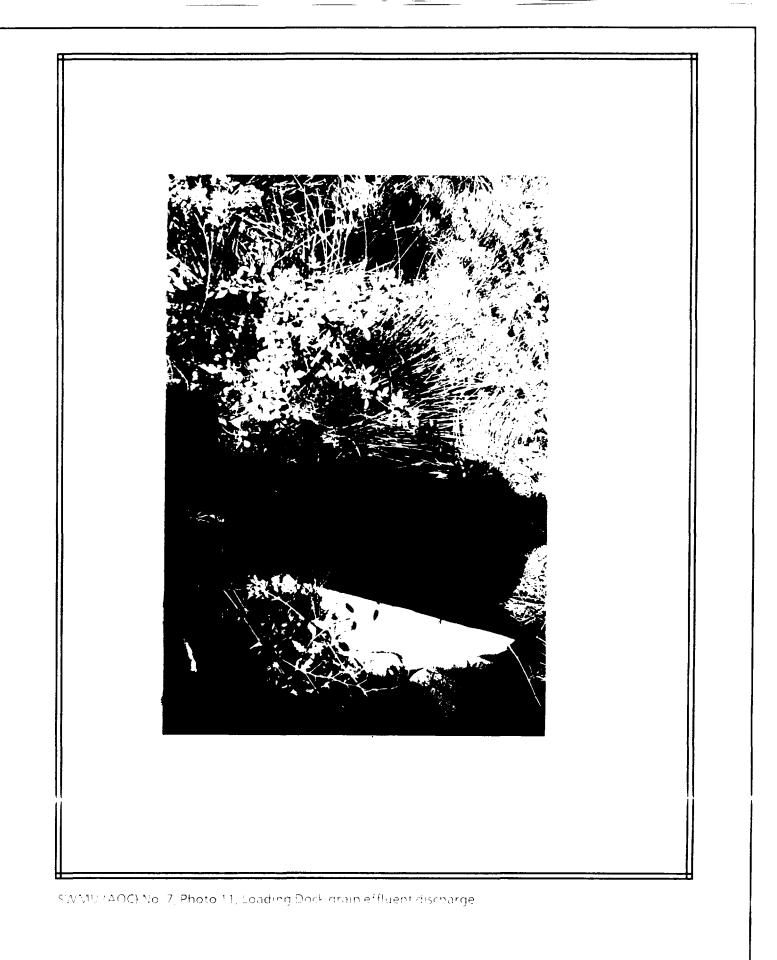
SWMU (AOC) No. 6, Photo 8, Crack in concrete floor



SWMU (AOC) No. 6, Photo 9, Crack in concrete floor



SWMU (AOC) No. 7, Photo 10, Loading Dock Drain



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- 3. Doug McCurry, Chief, Waste Engineering Section, U.S. Environmental Protection Agency, memorandum to Emil Breckling, North Carolina Department of Human Resources (NCDHR), November 25, 1985. Subject: ID number of Photo Chemical Systems.
- Uniform Hazardous Waste Manifest (EPA Form 8700-22) Document Number CTC0218779 for Photo Chemical Systems (Transporter EPA ID No. NCD08831065), March 20, 1990.
- Preston Averette, Photo Chemical Systems, telephone conversation with Jerald Tittle, NUS Corporation, July 18, 1990. Subject: Operations.
- 6. Kenneth R. Finch, Warehouse Manager, Photo Chemical Systems, Application Form to William L. Meyer, NCDHR, May 14, 1985. Subject: Address change.
- 7. O.W. Strickland, Head, North Carolina Solid and Hazardous Waste Management Branch, letter to Preston Averette, Photo Chemical Systems, March 13, 1984. Subject: Part B.
- 8. Jeff Dykes, Owner, Photo Chemical Systems, letter to Pam Cable, NCDHR, August 27, 1987. Subject: Part A.
- 9. Margaret Babb, NCDHR, letter to Photo Chemical Systems, September 16, 1987. Subject: Change from generator to small generator.
- 10. NCDHR, Inspection and Evaluation Report. Filed by staff ID number 07, May 10, 1989.
- 11. Carroll Burley, South Carolina Department of Health and Environment, letter to Jeff Dykes, Photo Chemical Systems, March 24, 1989. Subject: Transporter ID number.

- 12. Ronald Corcory, Chief, State of New Jersey Department of Environmental Protection, letter to NCDHR, February 11, 1986. Subject: Transporter violations.
- 13. Jack Moyer, Raleigh Water Department, telephone conversation with Julie Keller, NUS Corporation, January 24, 1990. Subject: Raleigh water system.
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- 17. Site Inspection Report, Square D Company. Filed by Grover Nicholson, North Carolina Solid and Hazardous Waste Management Branch, Environmental Health Section, January 1, 1986.
- 18. Harry E. LeGrand, <u>Groundwater of the Piedmont and Blue Ridge Provinces in the Southeastern States</u>, Circular 538 (Washington, D.C., GPO: United States Geological Survey, 1967), pp. 1-11.
- 19. U.S. Geological Survey, <u>National Water Summary 1984</u>: <u>Hydrologic Events Selected Water</u>

 <u>Quality Trends and Ground-Water Resources</u>, Water-Supply Paper 2275 (1984), pp. 329-332.
- 20. J.M. Parker III, <u>Geology and Mineral Resources of Wake County</u>, Bulletin 86 (Raleigh, North Carolina: North Carolina Geological Survey, 1979), p. 1.
- 21. U.S. Department of Commerce, <u>Climatic Atlas of the United States</u> (Washington, D.C.: GPO, June 1968) Reprint: 1983, National Oceanographic and Atmospheric Administration.
- 22. U.S. Department of Commerce, <u>Rainfall Frequency Atlas of the United States</u>, Technical Paper No. 40 (Washington, D.C.: GPO, 1961, p. 93).
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OVERSIZED DOCUMENT

PHOTO CHEMICAL SYSTEMS APPENDIX B F4-8910-29



Site Inspection Report

D.F# 560.9

I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE WC DOGO 831065 **SEPA** PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT II. SITE NAME AND LOCATION 02 STREET ROUTE NO . OR SPECIFIC LOCATION IDENTIFIER Photo Chemica 1 Systems 105 FUREST 04 STATE 05 ZIP CODE KNICHT de les 09 COORDINATES LITTUDE 35 48 10 0 LONGITUDE 679 28 42 0 FOREST DAISE MAKE Right (North) THAN FACILIM = 200 FEET ON 10x4 (Less) III. RESPONSIBLE PARTIES 02 STREET August Mar PhotoChemicar / Systems 310 N. CAKE Howel OB TELEPHONE NUMBER CASSElberry 900 Sun VAlles Orive O STATE 11 ZP CODE Roswell GA 30076 13 TYPE OF OWNERSHIP (Crock ene C C STATE CD.COUNTY C E MUNICIPAL X A PRIVATE C B FEDERAL . C G. UNKNOWN 14 OWNER/OPERATOR NOTIFICATION ON FILE (Chock of that above) C A RCRA 3001 DATE RECEIVED WONTH DAY TEAM C B UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED WONTH DAY TEAM C C NONE IV. CHARACTERIZATION OF POTENTIAL HAZARD 01 ON SITE INSPECTION BY CONTRACTOR A EPA B EPA CONTRACTOR E LOCAL HEALTH OFFICIAL D F OTHER X YES DATE D3 26, 90 TENO C STATE C D. OTHER CONTRACTOR CONTRACTOR NAME(S) 03 YEARS OF OPERATION 1485 X A ACTIVE IS INACTIVE II C UNKNOWN chriens C UNKNOWN MIGORPHO YE OF DESCRIPTION OF SUBSTANCES POSSELY PRESENT, KNOWN OR ALLEGED 05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

- DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENT

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

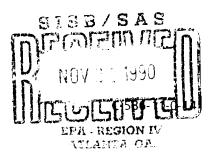
I. IDENTIFICATION

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IV. COMMENTS			
V. SOURCES OF INFORMAT	TION (Cre specine references e g. state free	SAFFER ANALYSIS reports	
EPA-MS-Stati			



1927 LAKESIDE PARKWAY SUITE 614 TUCKER. GEORGIA 30084 404-938-7710



November 20, 1990

Ms. Pat DeRosa Superfund Section North Carolina Department of Environment, Health, and Natural Resources P.O. Box 27687 Raleigh, North Carolina 27611-7687

Subject:

Scheduled FIT Reconnaissance in North Carolina

Dear Ms. DeRosa:

The EPA Field Investigation Team (FIT) will be visiting the state of North Carolina on December 17-18, 1990. FIT will be conducting an offsite reconnaissance and gathering information to investigate the following site:

Photo Chemical Systems - Wendell Wendell, Wake County, North Carolina EPA ID No. NCD000831065

The FIT Project Manager is Andy Harvey.

This EPA identification number has also been used for the Photo Chemical Systems facility in Knightdale, Wake County. According to Robert Morris, the Knightdale facility is supposed to be assigned a new identification number soon.

Please notify the appropriate local agencies. I appreciate your help in this matter.

Very truly yours,

Approved:

Joan J. Dupont

North Carolina Section Manager

JJD/jec

CC::

Robert Morris Andy Harvey

Fran & Digent



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E. ATLANTA, GEORGIA 30365

DATE: 10/17/90	
Mr. Phil Blackwell NUS Corporation 1927 Lakeside Parkway Tucker, Georgia 30084	
Dear Mr. Blackwell:	
following CERCLA site:	proposed/completed FIT report on the
Site Name:	Photo Chemical Systems Inc Wendell
	1CD 000 831065
Site Reference#	2585
EPA Project Man	ager: Morr, S
The above site has been Therefore, it has now be	assessed by EPA and a disposition made on it. en assigned to FIT for the following action:
NF	RAP
PA	
ss	I Phase I (PAR) - Former location of EPI site
LS	I Phase II already has a PA). Fit I Evaluation has the file info. on this
LS	- de la companya de l
0t	her site of has done to directly the proparty. Have the same person who did the
Sincerely,	rack for the Eos do in-
Lum M. Sa.	PAR (if possible).
Susan M. Deihl, Chief	
North Unit	Acknowledging receipt at
Site Assessment Section	Acknowledging receipt of assignment
cc: Fran Harrell	Cheff Stehry Date 10/19/90



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

4WD-WPB	· · · · · · · · · · · · · · · · · · ·	i i det afra i Fried	
DATE: 10	0/17/90		* # # * * * * * * * * * * * * * * * * *
NUS Corpo	Blackwell coration ceside Parkway Georgia 30084		
Dear Mr.	Blackwell:		
	ter concerns the proposed/completed of CERCLA site:	_	
	Site Name: Photo Chemical	ystems Inc -	Knightdale
	Site I.D.#:	- In the second	J
	Site Reference#: T3/		
	EPA Project Manager: Morris		
The above Therefore	re site has been assessed by EPA and re, it has now been assigned to FIT	l a disposition for the followi	made on it. ng action:
	NFRAP		
	PA		
•	SSI Phase I (PAR)		
	SSI Phase II		
	LSI Evaluation		•
	LSI		
	Other - EPI	location of	
Sincerely	the Thoto Ch alreads	new location of in- facility. performed 3/26/90	, FIT m-site
North Uni	Deihl, Chief Acon : sessment Section	3/26/90	
cc: Fran	n Harrell		

Acknowledging receipt of assignment

Bhy Black 4/20 10/14/90

THE FOLLOWING SITES ARE RCRA FACILITIES (THEREFORE, CERCLA NFRAP'S) AS OF AUGUST 21, 1989:

REF. NO.	ID NO.	SITE NAME
2782	NCD049773245	DETREX CHEMICAL INDUSTRIES INC
2772	NCD047369046	DUPONT, EI DE NUMOURS & CO. CAPE FEAR
2622	NCD003173358	DURABLE WOOD PRESERVERS INC
3155	NCD991278524	ENVIRONMENTAL RECYCLING CO.
2732	NCD041043811	FIBER INDUSTRIES INC
2597	NCD003149292	GASTON CO DYEING MACHINE CO
2787	NCD050409150	GENL ELEC CO
2876	NCD072018252	GENL ELEC MED STEAM TURBINE PROD DEPT
2724	NCD024900987	HOLCOMB CREOSOTE CO
2550	NCD000771964	LITHIUM CORP OF AMERICA CHEMICAL PLT
2927	NCD085438810	MILLER BREWING CO
3147	NCD991277856	NCDA PESTICIDE LAB STORAGE FACILITY
2556	NCD000773655	OLDOVER CORP
2585	NCD000831065	PHOTO CHEMICAL SYSTEMS INC
2741	NCD042091975	RJR TECH CO
2895	NCD079060059	SAFETY KLEEN CORP
2559	NCD000776740	SAFETY - KLEEN 3-171-01
2892	NCD077840148	SAFETY - KLEEN CORP 3-064-01
2558	NCD000776732	SAFETY - KLEEN CORP. 3-031-02
2916	NCD083673681	SINGER CO - KERAFOTT DIV
2875	NCD072012354	SINGER CO. FURNITURE DIV. WASHINGTON
2939	NCD091249417	TEXTRON INC HOMELITE DIV
2627	NCD003184520	WEST POINT PEPPERELL HAMILTON
2654	NCD003213907	WESTERN ELEC CO INC LEX RD PLT

THE FOLLOWING SITES ARE ALSO LISTED AS NFRAP SITES (AS PER POS' FILE REVIEW OF AUGUST 21, 1989):

REF. NO.	ID NO.	SITE NAME
3041	NCD980557946	FAIRVIEW LDFL
2675	NCD003230083	FANCOURT W F CO
2567	NCD000813683	GA-PACIFIC CORP CHIP-N-SAW
2964	NCD097724306	GA-PACIFIC CORP CHIP-N-SAW
2565	NCD000813659	GA-PACIFIC CORP COMPLY
3060	NCD980559967	GA-PACIFIC CORP HDWD SAW
2562	NCD000813543	GA-PACIFIC CORP PANELBOARD
2566	NCD000813667	GA-PACIFIC CORP PLYWOOD
2669	NCD003225620	HIGH POINT FURNITURE INDUSTRIES
2573	NCD000828244	KINGS MOUNTAIN PILOT CREEK WWTP
2956	NCD095119210	MCGRAW EDISON CO
3054	NCD980559330	NASH CO LDFL
3055	NCD980559348	NASH CO LDFL
3056	NCD980559355	NASH CO LDFL
2533	NCD000616466	REYNOLDS RJ TOBACCO CO
2867	NCD071561864	SHERWIN WILLIAMS CO
3057	NCD980559389	TARBORO LDFL
3153	NCD991278300	UNITED DRUM T/A RELIANCE UNIVERSAL
3146	NCD991277807	WOOLFOLK CHEM WRKS WENDELL WES

SSI PHASE II DOCUMENTATION CHECKLIST

Record this information in as much detail as you can, providing attachments (e.g. well logs, blue prints) as necessary. This information is required for all Screening Site Inspections and should be recorded in field logbooks by the project manager or his designee. Cite the source for all information obtained for all sections. Lists of HRS-specific definitions, sensitive environment identifications, and a well survey form are attached.

Site Name: Photo Chemical System s

City, County, State: Kright dale, Wake, North CARling

EPA ID No : NCD ØØ Ø 831 Ø65

Person responsible for documentation: Jend Title

Date: 9.27.90

ONSITE DATA COLLECTION

- I. Site Layout
 - Is the site active? If so, how many full time workers are employed?

 YES, approximately 40
 - Provide a site sketch to scale. Include in the sketch the following features if present:
 - buildings

See report

- paved areas
- fences and security points
- railroad tracks
- source location and size (a source is defined as any area where a hazardous substance has been deposited, stored, disposed, or placed, or soil that has become contaminated due to migration)
- drainage/diversion structures (describe)
- storage areas (describe)
- Describe (and sketch) the probable overland flow direction of runoff from source area(s), and the approximate distance to perennial surface water (including wetlands).
 Consult the topo for this information and confirm while onsite.

See Report

• Complete well survey forms for industrial and/or potable wells on site, focusing on location (include in site sketch), depths, pumpage, and the number of workers served by each well. No wells on site?

II. Waste and Containment Description

- Were the wastes <u>initially</u> deposited in a liquid, sludge, or dry state?
- Is the depth of wastes (bls) known? Is there waste or contaminated soil at 2 feet bls or higher? No , NO
- is there an engineered liner and/or cover (other than clay)? Is the liner single or double?
- Is there a soil cover? If so, is it native soil? How thick (in inches) is it? Describe the soil type and the extent of vegetation on a source and onsite.

 NO, NO, 4083 NOT APPLY
- How much waste is present in each source? Can describe by amount deposited, or volume of source, or area of source.
- Are berms present? Are they maintained? How much freeboard is present?

 Around chemical mixing room. Opproximately 3-4" Freeboard.
- Is there a leachate collection system?

M

SITE AND AREA USE DATA COLLECTION

- Identify the nearest residence or regularly occupied building. Specify whether the residence/building is on a source, contiguous to a source, or nearby.

 See Topographic map appears A
- Are workers likely to come into contact with the source area(s)? (i.e. are work areas on or contiguous to a source?).
- Is the source area accessible and attractive to the public? Are there any signs of recreation in source area(s)? Describe.
- Confirm the location of the nearest drinking water well if not onsite. 2000 feet North CAS, See to f.

f any target information from the Recon Documentation Checklist is lacking or needs to be updated, this data must be obtained or confirmed during the SSI Phase II.

Definitions

Karst Terrain: a type of topography formed in limestone, dolomite, or gypsum by dissolution by rain and groundwater, resulting in a high potential for contaminants to migrate rapidly through the karst aquifer with little reduction in the concentration of the hazardous substance through dispersion, dilution, or attenuation. Karst formations are characterized by the primary movement of water occurring through solution channels.

Confining layer (aquiclude): a unit characterized by low permeability that prohibits movement of water or nazardous substances. The confining unit may be overlying or underlying an aquifer (definition modified from EPA Ground Water handbook). For scoring purposes, the confining unit must be areally continuous throughout the 2-mile site radius.

Aquifer interconnections (hydraulic interconnections): Areas between aquifers that allow the transfer of groundwater or hazardous substances in sufficient amounts resulting in the separate aquifers being treated as a single hydrologic unit. (Interconnections must be within 2 miles of the site).

<u>Blended water system:</u> any public water system which mixes or blends water from multiple groundwater wells and/or surface water intakes prior to or during distribution

- * <u>Designated recreational areas</u> (on the surface water pathway): any land contiguous with any portion of the surface water pathway designated by the state or community for public recreation. Recreational areas include designated swimming beaches, public recreation piers, marinas, waterfront parks and campgrounds, and designated water-sport recreation areas.
- * <u>Barriers to travel</u>: natural barriers (e.g. rivers) which would inhibit overland travel to the site or cause the overland travel distance to exceed 1 mile (i.e. the travel distance would have to be measured from an individual to the nearest crossing and from there to the site).

<u>Perennial surface water:</u> continuous and uninterrupted surface water persisting during all seasons of the year.

<u>Contiquous</u>: being in actual contact with a boundary or at a point.

* taken from the November 28, 1988 revised HRS Proposed Rule

TABLE 4-23 SENSITIVE ENVIRONMENTS RATING VALUES

Sensitive Environment	Assigned Value
Critical habitat for Federal designated endangered or threatened	100
species	
Marine Sanctuary	
National park	
Designated Federal Wilderness Area	
Areas identified under the Coastal Zone Management Act	
Sensitive areas identified under the National Estuary Program or Near Coastal Waters Program ²	
Critical areas identified under the Clean Lakes Program ³	
National Monument ⁴	
National Seashore Recreational Area	
National Lakeshore Recreational Area	
Habitat known to be used by Federal designated or proposed	7.5
endangered or threatened species	
National Preserve	
National or State Wildlife Refuge	
Unit of the Coastal Barrier Resources System	
Coastal Barrier (undeveloped)	
Federal land designated for protection of natural ecosystems	
Administratively Proposed Federal Wilderness Area	
Spawning areas critical for the maintenance of a fish/shellfish	
species within a river system, coastal embayment, or estuary	
Migratory pathways and feeding areas critical for the maintenance	
of anadromous fish species within a river system	
Terrestrial areas utilized by large or dense aggregations of animals for breeding	
National river reach designed as recreational	
Habitat known to be used by State designated endangered or	5.0
threatened species	
Habitat known to be used by a species under review as to its Federal endangered or threatened status	
State designated areas for the protection or maintenance of aquatic	
life (coastal, estuarine, or freshwater area)	•
Coastal Barrier (partially developed)	
Federal designated Scenic or Wild River	

TABLE 4-23 (concluded)

Sensitive Environment	Assigned Value
State land designated for wildlife or game management State designated Scenic or Wild River	25
State designated Natural Areas Particular areas, relatively small in size, important to maintenance of unique biotic communities	

Areas identified in State coastal Zone Management plans as requiring protection because of their ecological value.

²National Estuary Program study areas (subareas within estuaries) that are identified in Comprehensive Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act as amended).

Near Coastal Waters (NCW) as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act as amended.

³Clean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) that are identified by State Clean Lake Plans as critical habitat (Section 314 of the Clean Water Act as amended).

⁴Use only for air pathway.

Slimit to areas described as being used for intense or concentrated spawning by a given species.

⁶Include only those river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time.

⁷Limit to terrestrial vertebrate species with aquatic or semi-aquatic foraging habits.

⁸Areas designated under Section 305(a) of the Clean Water Act as amended.

WATER USE SURVEY



1927 LAKESIDE PARKWAY SUITE 614 TUCKER GEORGIA 30064

Name and address of resident			404-938-7710	
Howald Pa	Pole			
Box 489				
Knightdale	NC.			
(919) 266-3	646	·		
Check water source(s) used by re	esident			
1. ORILLED WELL	V DEPTH	/30 WATE	R LEVEL	
2. DUG WELL	DEPTH	WATE	R LEVEL	
3. SPRING	ARTESIAN		GRAVITY	
4. SURFACE WATER				
5. PUBLIC SUPPLY				
6. OTHER				
Check water use(s) and specify w	ater source of each			
DRINKING	NUMBER OF USERS	6	SOURCE	
HOUSEHOLD	NUMBER OF USERS		SOURCE	
IRRIGATION	ACRES	CROP	SOURCE	
OTHER		· · · · · · · · · · · · · · · · · · · 		
ANY PROBLEMS WITH WATER?	NO	·		
				
HOW LONG HAVE SOURCES BEEN	I IN USE7 <u>1973</u>	<u> </u>		
		T- 87		
ANY MONITORING WELLS ON PRO	OPERTY? NO			
		-		
PREPAREDBY JENALU	TiHle	DATE	9-27.50	
COMMENTS				

MEMORANDUM

DATE:

SUBJECT: File Review of North Carolina CERCLA Site Assessment Files

FROM: Robert Morris

North Unit, Site Assessment Section

Waste Program Branch

TO: Site File

Photo Chemical Systems, Inc.

NCD000831065

As a result of the CERCLA file review on the State of North Carolina Site Assessment Files completed on 08/21/89, and through subsequent consultation with North Carolina Department of Environment Health and Natural Resources personnel, it was determined that Photo Chemical Systems, Inc., NCD000831065, was a RCRA TSD facility. Because of the RCRA status of this site, no further remedial action is currently planned under CERCLA authorities.

cc: Pat DeRosa, NCDEHNR

Document Name: RCRA TSD Page 6

MEMORANDUM

DATE: 7/9/90

SUBJECT: File Review of North Carolina CERCLA Site Assessment Files

FROM: Robert Morris

North Unit, Site Assessment Section

Waste Program Branch

TO: Site File

Photo Chemical Systems, Inc.

NCD000831065

As a result of the CERCLA file review on the State of North Carolina Site Assessment Files completed on 08/21/89, and through subsequent consultation with North Carolina Department of Environment Health and Natural Resources personnel, it was determined that **Photo Chemical Systems**, Inc., NCD000831065, was a RCRA TSD facility. Because of the RCRA status of this site, no further remedial action is currently planned under CERCLA authorities.

cc: Pat DeRosa, NCDEHNR

Document Name: RCRA TSD Page 6

MEMORANDUM

DATE: 7/9/90

SUBJECT: File Review of North Carolina CERCLA Site Assessment Files

FROM: Susan Deihl, Chief

North Unit, Site Assessment Section

Waste Program Branch

TO: Syed Ahmed, Acting Chief

Waste Engineering Section (NC/SC)
RCRA and Federal Facilities Branch

This is to inform you that as a result of the CERCLA file review on the State of North Carolina Site Assessment Files completed on 8/21/89, and through subsequent consultation with North Carolina Department of Environment Health and Natural Resources personnel, it was determined that Photo Chemical Systems, Inc., NCD000831065, was a RCRA TSD facility. Because of the RCRA status of this site, no further remedial action is currently planned under CERCLA authorities.

However, if you determine that the RCRA status of this site has changed, or if the RCRA responsible party is unwilling or unable to pay for necessary corrective action, please inform us and we will reactivate our investigation of the site.

cc: Pat Rosa, NCDEHNR Site File

Document Name: RCRA TSD Page 5



1927 CAKESIDE PARKWAY SUITE 614 TUCKER, GEORGIA 30084 404-938-7710



March 7, 1990

Mr. A.R. Hanke Site investigation and Support Branch Waste Management Division Environmental Protection Agency 345 Courtland Street, N. E. Atlanta, Georgia 30365

Subject:

Site Acess Letter

Environmental Priorities Initiative Program

Photo Chemicals System, Inc.

Knightdale, Wake County, North Carolina

TDD No. F4-8910-29

Dear Mr. Hanke:

Please find enclosed a completed site access letter (verbal approval) for the above subject site. The visual site inspection is scheduled for March 26, 27, 1990.

if you have any questions or comments relative to the access form or site scheduled site inspection, please contact me.

Very truly yours,

Approved:

Jerald Tittle Project Manager

JT/ma

Enclosure

CC: Susan Deihl EPA

4WD-SISB

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Name and address:

M2. PRESTON AVERETTE

PHOTO CHEMICAL SYSTEMS INC

105 FOREST DRIVE

KNIGHTDALE, NC 27545

RE: PHOTO CHEMICALS SYSTEMS INC

KNIGHTDALE WAKE COUNTY NORTH CAROLINA

NCD 000 831 065

Dear Mr. AVERETTE:

The United States Environmental Protection Agency (EPA), pursuant to the authority and requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCIA), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499 and Section 3007 of the Resource Conservation and Recovery Act (RCRA), is planning to conduct an investigation of the above referenced site. THOTO CHEMICAL SYSTEMS is located on/at FOREST DRUYE. EPA has reason to believe that there may be a release or threat of a release of hazardous substances from the site into the surrounding environment. The purpose of this investigation is to determine, as stated in CERCIA (104)(e)(2)(A), the identification, nature, and quantity of materials which have been or are generated, treated, stored or disposed of at a vessel or facility or transported to a vessel or facility.

As per the telephone conversation on MARCH & 1990 with PRESTON, EPA was granted permission for access to your property beginning on or about MARCH 26, 1990, and continuing through the completion of the investigation on or about MARCH 27, 1990. Activities to be conducted during the investigation may include:

- Inspect, sketch, and photograph the premises;
- 2. Review records of Solid Waste Management Units (SWMUs) which provide for;
 - (i) The location of the unit(s) on the topographic map.
 - (ii) Designation of type of unit(s).
 - (iii) General dimensions and structural description (supply any available drawings).

- (iv) When the unit was operated.
- (v) Specification of all wastes that have been managed at the unit to the extent available.
- 3. Review of any records of releases of hazardous waste or hazardous constituents from such units.
- 4. Review records on the size and type of facility, and the manufacturing process to determine past waste handling practices.

The above activities will be conducted by personnel from EPA Region IV's Field Investigation Team (FIT). Jeal Title of FIT will contact you prior to the actual site visit to make final arrangements and note any changes.

If you have any questions, please contact 1323 Mars at (404) 347-5065.

Your cooperation in this matter is appreciated.

Sincerely,

Deniso Bland Robert MORRIS Environmental Specialist ENGINEER

co: JERAUD TITIE N'B FITY
JEFF CRAIN EPARCRA

bc: John Dickerson, EPA RCRA

TO: File

FROM: Frank Moore Hem-

SUBJECT: Telephone Interview with Mr. Finch with

Photo Chemical Systems, Inc.

The following information was obtained from Mr. Ken Finch with Photo Chemical Systems, Inc. on 7-6-84 to be used in completing the PA.

Old Address: II N. Pine Street Wendell, N. C. 27591

Present Address: 515 W. Wilson Avenue Wendell, N. C. 27591

Future Address: (as of September 84)
Knightdale, N. C.

The company started in the area around 1976 and was operated out of the salesman's home. The first location with inventory was at 11 N. Pine Street, and was there approximately 1 1/2 years. They have occupied their current facility (515 W. Wilson Avenue) for the past 2 1/2 years. In September of this year they plan to move into their new facility in Knightdale.

Mr. Finch stated that up until a few years ago they only sold chemicals and were not involved with the transportation, storage or generation of hazardous wastes.

The "Part A" was submitted while they were at the Pine Street location, but they were still not handling hazardous wastes generated by their customers.

Mr. Finch stated that they have never disposed of any hazardous wastes except to SCA in S. C., with correct permits. No chemicals (product or wastes) had even been spilled, and none were left at the Pine Street facility when they moved and the facility is presently occupied by another company.

X

Other Information

- Photo Chemical Systems, Inc.
- Owner, Jeff Dykes
- furnishes chemicals for plating and finishing of printed circuit boards

- <u>Surface Chemistry, Inc.</u>
 (sub of Photo Chemical Systems)
- In house custom blending/mixing of chemicals for customer use (same facility)
- PCS Transportation, Inc.
 (Sub of Photo Chemical Systems)
- Company name used in transporting and disposing of hazardous wastes generated by its customers.

Presently in RCRA as a transporter, the company (as a service to its customers) removes the wastes from the chemicals they supply their customers. This hazardous waste is disposed of at SCA in South Carolina.

Not a CERCLA Site Present location imported by L. Perry Nors

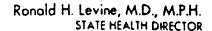
PRELIMINARY ASSESSMENT CHECKLIST (revised 6/30/84)

,	SITE ID NCDO0331065 RECO SITE NAME Note Chem Superior Checklist Reviewer (na V Site Location Adequate	MMENDATION:No Further ActionFurther InsvesticEmergency/Remedicate ame & date)Contact (name	gation (To be completed by:_al (Referred toMo	Transcribing PRCRA Facility Other ore information needed (Surface water name, population)
	File Search Completed Rejected (State Reason	Responsible Pa	rty (address & phone)/Ac	compted for entering into ERRIS
]	2. OWNER OWNERSHIP OPPRIVATE F-FEDERAL S-STATE C-COUNTY M-MUNICIPAL O-OTHER 2. OWNER NOTIFICATION C-CERCLA (UNCONTROLLED WASTE SITES)	3. ON SITE SINSPECTION E-EPA C-EPA CONTRACTOR S-STATE H-OTHER CONTRACROR L-LOCAL HEALTH OFF O-OTHER X-MULTIPLE 4. SITE STATUS A-ACTIVE U-UNKNOWN U-UNKNOWN H-OTHER CONTRACROR L-LOCAL HEALTH OFF O-OTHER X-MULTIPLE		YARDS (NUM)
)	T-TOXIC C-CORROSIVE R-RADIOACTIVE I P-PERSISTENT S-SOLUBLE I-INFECTIOUS F-FLAMMABLE G-IGNITABLE V-VOLATILE E-EXPLOSIVE A-REACTIVE M-INCOMPATIBLE O-OTHER O-OTHER NONOT APPLICABLE Y-MULTIPLE OCCUPANTION OF CONTROL OF C	G-GROUNDM O-OILY WASTE L-SOLVENTS P-PESTICIDES G-ORGANICS A-ACIDS B-BASES M-HEAVY METALS X-MULTIPLE QUIRES ENTRY DER G-GROUNDM S-SURFACE A-CONTAMI L-CONTAMI I-WORKER P-POPULAT R-DAMAGE K-DAMAGE H-CONTAMI	NATION OF SOIL IG WATER CONTAMINATION EXPOSURE/INJURY TO FLORA TO FLAUNA O-C	O. RANKING N-NATIONAL PRIORITY LIST M-MITRE RANKING O-OTHER * X-MULTIPLE DAMAGE TO OFFSITE PROPERTY CONTAMINATION OF SEWERS, STORM DE ILLEGAL/UNAUTHORIZED DUMPING OTHER KNOWN, POTENTIAL, OR ALLEGE MULTIPLE

PRELIMINARY INSPECTION CHECKLIST (revised 6/30/84)

Check each item if complete - leave blank if incomplete or inadequate data provided.

Site Name and Location	Responsible Parties
Site Name	Owner
Specific Location	Owner address and telephone
(include street number)City, State, Zip Code	Operator (indicate if same as owner)
County, County Code	Operator address and telephone
Congressional District	Type of ownership
Coordinates	Owner/Operator notification
Directions to site	Person to Contact (phone)
	Description of Hazardous Conditions, etc.
Site Inspection	Surface Water Name (river, lake, stream)
Site Status	Potential Population (town, population)
Substances on site	Pertinent Hydrogeologic Information
(Known or alleged)	(aquifer recharge area, significant geologic structures in vicinity)
Potential Hazard Description	Type of Hazardous Waste
(include relative population and	Amount of Hazardous Waste
water body in vicinity) Priority Assessment	Amount of nazardous waste /
Years of Operation	Concentration of Hazardous Substances
Other (Describe below)	Measure of concentration AAA
WOTA CONCLASITE	Source and Date of Reports Cited
No FUNTURE HETHEN RESTO	





DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

Date: May 30, 1984

Mr. Jeff Dykes Photo-Chemical Systems, Inc. 515 W. Wilson Avenue Wendell, NC 27591

Re: Facility ID No. NCD 000 831 065

Dear Mr. Dykes:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

·	Add As	<u>Delete As</u>	
		×	generator
•			transporter
			treater
			storer
			disposer
	X		small generator
We are advising EPA o any further change in Your EPA ID NO. is	your operations	which would again	ase notify us if there is affect your status.

Cordially,

Strickland, Head

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS /KL: tl

any further change Your EPA ID NO. is

cc: Doug McCurry EPA Region IV Emil Breckling Larry Perry Wake County Health Department

DHS Form 3048 3/82 Solid & Haz. Waste Mgt. Branch Department of Hum. Resources
Division of Health Services
Solid & Hazardous Waste Management Branch

Solid & Hazardous Waste Management Branch

Mr. O. W. Strickland, Head

Division of Health Services

P. O. Box 2091

APPLICATION FOR CHANGE IN CLASSIFICATION UNDER RCRA

Date: 5-25-84

Company Name: Photo-Chemical Systems Inc.

EPA ID No: NCO 000 831 065

Raleigh, N	. C. 27602		
Dear Mr. St	trickland:		
	ompany requests k all that apply		ge in its classification under
	Add As	Delete As	
•		X	generator
			transporter
			treater
			storer
e. M a lek			disposer
	Ø		small generator
Our re	eason for this re	equest is:	No.
_5.7	le does not	generate hur	ardous reasto
a ne wast for If you retain your Fucility	ew calculation of the etc. Be specially delisting a list of the etc. Be specially a list of the etc. Be specially a list of the etc. Transport of the etc. Transport of the etc. Transport of the etc. Transport of the etc.	f the volume of yo cific. Please not ted waste, which r you out of the reease state why.	may be a change in your process, ur waste, new analyses of your e that this is not a petition equires totally different handling. gulated system, but you wish to
		(over)	

I understand that my company must supply information about any changes in its operations which might change its status again on its own initiative.

I certify that the information supplied is accurate and correct to the best of my knowledge and belief. I am authorized to make this request on behalf of my company at the location given.

Signature: Kennell R. Find

Company Title: Absorber Manager

SPEED LETTER

TO	MR, KEITH LAWSON
	SOLID AND HAZARDOUS WASTE MANAGEMENT
	DIVISION OF HEALTH SERVICES
	P.O. BOX 2091



PHOTO CHEMICAL SYSTEMS, INC.

	DIVISION OF HEALTH SERVICES
ø	P.O. BOX 2091
	RALEIGH, NORTH CAROLINA 27602
SUBJECT	PART B APPLICATION AS A TSD FACILITY
	MESSAGE DATE 12/8/83 19
	PHOTO CHEMICAL SYSTEMS, WENDELL, NORTH CAROLINA DOES NOT WISH TO FILE THE PART B
	APPLICATION FOR PERMANENT AUTHORITY TO ACT AS A TSD FACILITY. AT THIS TIME, WE
	FEEL THIS WOULD NOT BE ADVANTAGEOUS TO OUR SITUATION. HOWEVER, THANK YOU FOR
	YOUR CONSIDERATION AND COOPERATION FOR PAST HELP AND INFORMATION.
	SIGNED
	REPLY DATE19
	
	SIGNED
	SIGNED
	SIGNED
	SIGNED
14.000-494944-5655	

PHOTO CHEMICAL SYSTEMS, INC.



November 16, 1983

Mr. Keith Lawson Solid and Hazardous Waste Management P.O. Box 2091 Raleigh, N.C.

Dear Mr. Lawson,

In response to Mr. Strickland's letter of November 2nd, we would like to confirm that we no longer handle hazardous waste and therefore do not wish to submit a part B application.

Sincerely,

Jeff Dykes President

Photo Chemical Systems

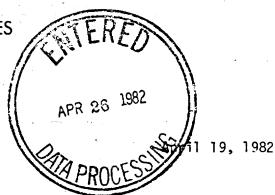
JD/bd





DIVISION OF HEALTH SERVICES P.O. Box 2091

Raleigh, N.C. 27602-2091



MEMORANDUM

TO:

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

FROM:

Larry D. Perry, District Representative &

Solid & Hazardous Waste Management Branch

SUBJECT:

Interim Status Inspection - TSDF, Transporter

Photo Chemical Systems

P. O. Box 826

Wendell, NC 27591 (Wake County)

EPA I.D. #NCD000831065

Contact: Preston Averette, Plant Manager

only transporter

Smith the

On March 30, 1982, an interim status inspection was made on the Photo Chem facility in order to determine compliance with RCRA regulations. During the inspection, it was determined that the facility does not generate any waste and listed as a storage facility due to speculation that it might store waste, for an interim period, in the future. This waste was anticipated from their customer pick-up that would be later transported to a disposal facility. At present, no material is being transported or stored by Photo Chemical Systems.

After consultation with the management it was determined that the facility would delist as a TSDF facility but retain their transporter status and ID number. At present they are considered a non-complying transporter but once they begin to transport hazardous waste they understand that they must be in compliance with all applicable transporter and DOT regulations. The facility also is aware that they can store waste at their facility for only 10 days prior to moving the material or being in violation of RCRA storage regulations.

A letter requesting to delist will be forwarded to this office by Mr. Averette.

LDP:ns





Ronald H. Levine, M.D., M.P.H. STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

Date: April 7, 1982

Mr. Preston Averette Photo Chemical Systems, Inc. P.O. Box 580

Re: Facility ID No. NCD000831065

Dear Mr. Averette:

Wendell, NC 27591

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

Add As	<u>Delete As</u>	
		generator
		transporter
		treater
		storer
		disposer
		small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. is not being cancelled. Your EPA ID NO. is

Cordially,

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS

John Herrmann cc:

EPA Region IV Emil Breckling

DHS Form 3048 3/82 Solid & Haz. Waste Mgt. Branch



PHOTO CHEMICAL SYSTEMS, INC.



March 31, 1982

O. W. Strickland
Division of Health Services
Solid and Hazardous Waste Management Branch
Environmental Health Section
P. O. Box 2091
Raleigh, NC 27602

Dear Mr. Strickland:

As follow-up to a visit with Larry Perry, I would like to request that Photo Chemical Systems, Inc. in Wendell, North Carolina be de-listed as a TSD facility (storage). However, we do wish to retain our transporter list reference number NCD000831065.

Your attention on this matter will be appreciated.

Sincerely,

Photo Chemical Systems, Inc.

reston aventte

Preston Averette

PGA/rc

cc: Larry Perry

Never were generator. Used to Store "spent" FeClz containing dissolved Cu. No longer do this.

	w	1
IX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)		12 7 10
A. HAZARDOUS WASTES FROM NON—SPECIFIC SOURCES. Enter the four—digit number f waste from non—specific sources your installation handles. Use additional sheets if necessary.	from 40 CFR Part 261.31 for each listed hazardou.	is .):
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F 0 0 8 F 0 0 9 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F	23 - 26 23 - 26	ETAC
B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four—digit number from 40 specific industrial sources your installation handles. Use additional sheets if necessary.	CFR Part 261.32 for each listed hazardous waste	from
13 - 14 15 16 16 16 15 - 16 17 19 19 19 19 19 19 19 19 19 19 19 19 19	17 18 18 23 - 26 24	
25 26 27 28 22 36 27 28 28 28 27 28 28 28 27 28 28 28 27 28 28 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	29 20 20 30	
C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four—digit num stance your installation handles which may be a hazardous waste. Use additional sheets if nec		ub-
31 32 33 34 34 35 35 37 38 38 39 40	35 36 36 23 - 26 41 42	
23 - 25 23 - 26 23 - 26 23 - 26 24 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	23 - 26 23 - 26 48	
23 - 26 23 - 26 25 - 26 25 - 26	23 - 26 23 - 26	
D. LISTED INFECTIOUS WASTES. Enter the four—digit number from 40 CFR Part 261.34 fo hospitals, medical and research laboratories your installation handles. Use additional sheets if	r each listed hazardous waste from hospitals, veter finecessary.	rinary
49 480 47 480 47 48 48 48 48 48 48 48 48 48 48 48 48 48	53 54	
E.CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes of hazardous wastes your installation handles. See 40 CFR Parts 261.21 - 261.24.		
X. CERTIFICATION		>
I certify under penalty of law that I have personally examined and am familiar attached documents, and that based on my inquiry of those individuals immedia. I believe that the submitted information is true, accurate, and complete. I am aw mitting false information, including the possibility of fine and imprisonment.	tely responsible for obtaining the informati	tion,
SIGNATURE NAME & OFFICIAL TITLE (type	e or print) DATE SIGNED	
- M / 12 1 1-t	- - / /.	/ ,

EPA Form 8700 12 (6-80) REVERSE

FOR OFFICIAL USE ONLY

AKE

COUNTY CODE

D.STATE

E. ZIP CODE

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VII. SIC CODES 14-digit, in order of priority!					
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(specify)		7	(specify)		
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		Market Commencer	R. Therefore from the land	A 1-3 A	96
C. STATUS OF OPERATOR (Enter Se ap	propriate letter into th	e answer box; If "On	her", apecify.)	D. PHONE (ar	sa code & no.)
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P.O. Box 826		1 1 1 1 1 2 :			
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C. RCRA (Hazardous Wastes)	6911	OTHER (specify)			THE PROPERTY OF THE PARTY OF
9 R	9		(specif	y /	
XL MAP	20 18 16 17 18		10		
Attach to this application a topographic make outline of the facility, the location of directment, storage, or disposal facilities, as water bodies in the map erea. See instructional party NATURE OF BUSINESS (provide a brief decomposity)	each of its existing nd each well where ns for precise requi cription)	and proposed int it injects fluids u rements.	ake and discharge st nderground, Include	tructures, each of its a all springs, rivers a	hazardous waste nd other surface
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MH. CERTIFICATION (see Instructions)					-
Secretly under penalty of law that I have settachments and that, based on my inquispplication, I believe that the information felse information, including the possibility	iry of those person is true, accurate a	ns immediately rei nd complete. I am	ponsible for obtain	ing the information	contained in the
A. NAME & OFFICIAL TITLE (type or print)		IGNATURE	· //	[C. D.	TE SIGNED
	, ·	<u> </u>	12-11/1		
JEFF DIK	5 5	- All	1 Willow	_ ,	17-17-80
COMMENTS FOR OFFICIAL USE ONLY					
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				DATE RECEIVED	·							OMMENTS
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		23										
				R REVISED APPLI		k a = a b =		l so ind		السا	h == +6	this is the first application you are submitting for your facility or a
revi EPA	sed \ 1.[app D. N	lica Iumi	tion. If this is your first ber in Item I above.	st application and yo	u already	knov	your fi	cility	's EF	A I.E	D. Number, or if this is a revised application, enter your facility's
A.	FIF]1.		PLICATION (place ISTING FACILITY (S C		finition o				' .		72.NEW FACILITY (Complete ilem below.) FOR NEW FACILITIES, PROVIDE THE DATE
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•	ente	ering	g co	CODE — Enter the cod des. If more lines are re process (including its	needed, enter the coo	<i>le(s)</i> in th	e spac	æ provid	ded. f	fap	roces	each process to be used at the facility. Ten lines are provided for ss will be used that is not included in the list of codes below, then III-C).
			_	DESIGN CAPACITY -		red in col	umn /	A enter 1	the ca	pach	y of 1	the process.
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1 12 Dr.	Г	_		B. PROCESS I	DESIGN CAPACI	TY	Τ_	7 7	<u></u>			B. PROCESS DESIGN CAPACITY
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CRIBING OTHER PROCESSES (code "TO4"), FO

ACH PROCESS ENTERED HERE

A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous westes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characterishandle hazardous wastes which are not hazardous wastes, tics and/or the toxic contaminants of those hazardous wastes,

-

- B. ESTIMATED ANNUAL QUANTITY For each listed wests entered in column A estimate the quantity of that wests that will be handled on an annual basis, For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

POUNDS	KILOGRAMS	
TONS	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hexardous wasts: For each listed hexardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the weste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four speces are provided for entering process codes, if more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form,

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hezerdous westes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quentity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter
- "included with above" and make no other entries on that line.
- 3. Repeat stap 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous weste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treet and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that weste. Treatment will be in an incinerator and disposal will be in a landfill.

	T	A. EPA						C. UNIT		D. PROCESSES												
Zó	HAZARD. WASTENO (enter code)				10	QUANTITY OF WASTE		OF MEA- SURE (enter code)			i. PROCESS CODES (enter)											2. PROCESS DESCRIPTION (if a code is not entered in D(1))
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X-4	1	p	0	0	2						1	ī		T	1		1	7		7	1	included with above

Continued from page 2. NOTE: Photocopy this page before completing ou have more than 26 wastes to list. Form Approved OMB No. 158-\$80004																	
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EPA Form 3510-3 (6-80)

DAGE 4 OF F

CONTINUE ON PAGE 5

V. FACILITY DRAWING (see page 4)

of offices

40'

Photo Chemical Sotems Wencello 27591